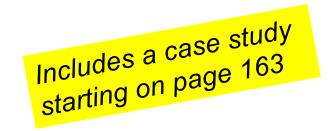


Working With Business Processes – Process Change in Agile Timeframes

Presented for Booking.com by Adept Events & Clariteq Systems Consulting Ltd.

Alec Sharp Consultant Clariteq Systems Consulting Ltd. West Vancouver, BC, Canada asharp@clariteq.com www.clariteq.com





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Developer/instructor background...

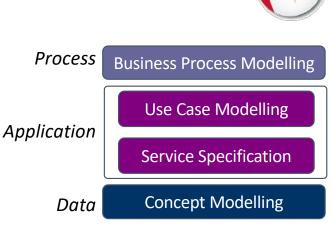
Alec Sharp, Clariteq Systems Consulting – asharp@clariteq.com

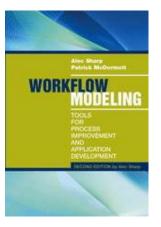
- 40+ years experience as an independent consultant:
 - Business Process Change discover, model, analyse, and design/redesign processes
 - Concept Modelling (Business-friendly Data Modelling)
 - Application Requirements Specification +
 - Facilitation & Organisational Change
 - Project Recovery

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- Consulting, teaching, speaking globally
 - Awarded DAMA's global Professional Achievement Award for contributions to "human-friendly" data modelling on Amazon - http://amzn.to/dHun10
- Author of "Workflow Modeling"
 - best-selling book on process modelling & improvement
 - second edition 2009 (sole author, complete re-write)





Overview and logistics

Section 1 – Fundamentals

- Five things you need to know about business processes
- How Business Process fits into a framework for Business Analysis: Process – Application – Data
- A three-phase methodology for Business Process Change

Sections 2 to 5 – Techniques

- 2. Identify true, end-to-end, cross-functional Business Processes
- 3. Clarify as-is issues & to-be goals
- 4. Model the *as-is process* in a *relevant* way
- 5. Assess the as-is process plus tips to design the *to-be process,* including a *feature-based* approach

Schedule (CET)

- 09:00 start
- 09:00 10:30 *class*
- 10:30 10:40 break
- 10:40 11:55 *class*
- 11:55 13:00 lunch
- 13:00 15:00 *class*
- 14:50 15:00 break
- 15:00 17:00 *class*
- 17:00 end

Finally...*you*:

- Name (how should I address you?)
- Brief description of your work
- Is there a topic you are especially interested in?
- Please try to keep your introduction to one minute or less

Five things you need to know about Business Processes

- 1. It's essential to have clarity on what a *business process* really is
- 2. Existing performance measures are often *functionally aligned* and work *against* business processes
- 3. Enterprise system implementations *must* include a *business process* perspective

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Business Processe

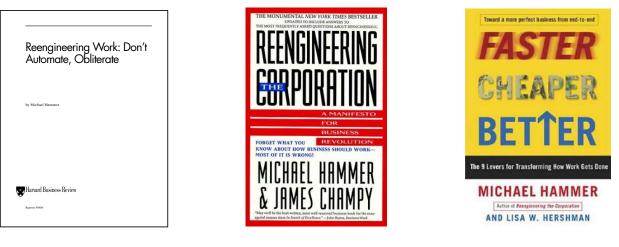
- 4. Success with business processes depends on taking a *holistic view* in which six *enablers* are considered
- 5. Business processes can't be great at everything a single *differentiator* or *strategic discipline* should be chosen



1. Confusion – what is a "business process?"

- It is essential to have clarity on what a *business process* really is
- 2. Performance measures may be *functionally aligned* work *against* business processes
- 3. Enterprise system implementations must include a business process perspective
- 4. Success with business processes requires a *holistic view* in which *six enablers* are considered
- A business process can't be great at everything – a single *differentiator* must be chosen

In the early 1990s, Michael Hammer popularised the focus on *business process*



Introduced core terminology:

- end-to-end, cross-functional, functional silo, ...
- even business process

Still, people and organisations miss the point...

Lesson #1 – Never assume everyone agrees what a "process" is

We need some help with our *Product Lifecycle Management* process.

Not a single process – it's a *family* of multiple business processes (a *process area* or *process domain*)



A whole *spectrum* of interpretations of *process*.

I spend all day writing business processes, like the <u>process</u> to *Revise Product Brochure Image.*

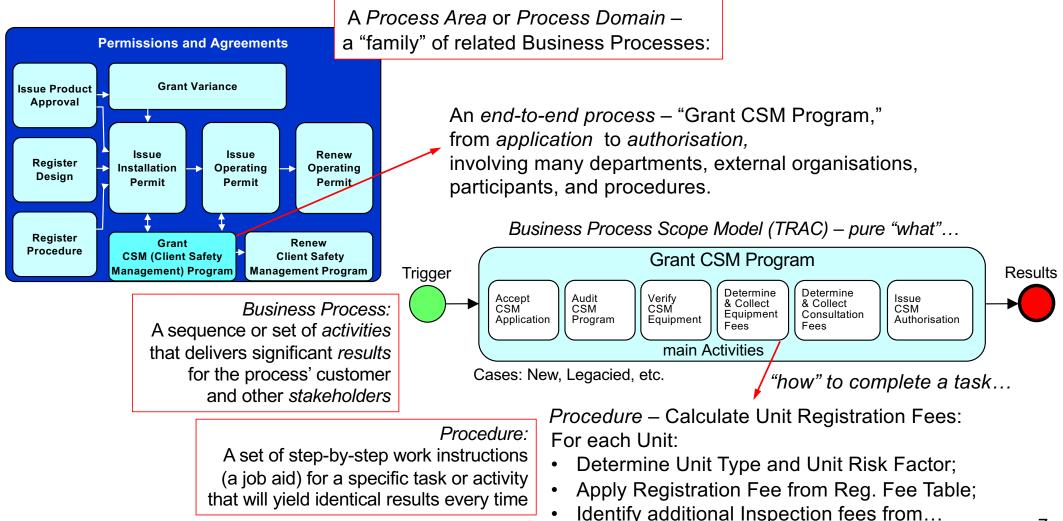
Not an entire process – it's a *procedure* providing instructions for a single task (SWI – standard work instructions)

Seek balance – a "business process" lies between the extremes

Most people hear *process* and think *procedure*!

The key issues – granularity and orientation

Taxonomy: a collection of processes vs. a process vs. a procedure



For reference – Process vs. Procedure

Process:

(or "end to end, cross-functional, Business Process")

A sequence or set of activities that delivers significant results for the process' customer and other stakeholders a concept that is better demonstrated than defined.

- involves multiple participants (actors or roles) and multiple organisation units / functions
- may or may not have a defined workflow
- initially break a process into five to seven major activities (subprocesses, phases, or milestones) each made up of more granular activities or tasks each of which might contain one or more documented procedures

Procedure:

A set of work instructions – a *job aid* – for a specific task or activity that will yield identical results every time.

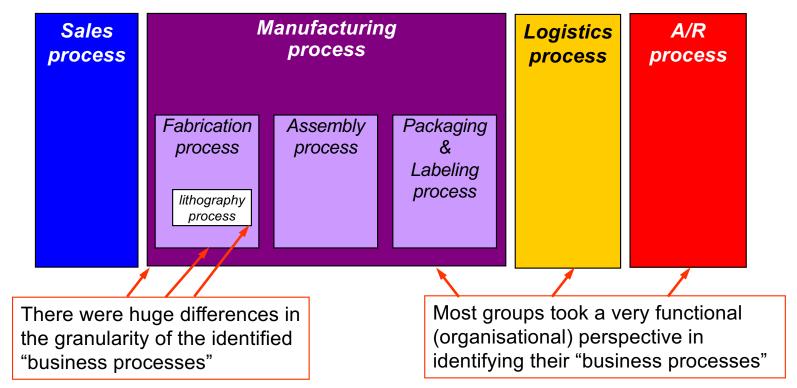
- Usually, one person or a small number of persons;
- Usually within a single function or organisational unit;
- a.k.a. Standard Work Instructions (SWI) or Standard Operating Procedure (SOP)

A real life (and expensive!) example

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As part of a massive system implementation, a global manufacturer identified the *business processes* that were expected to improve:

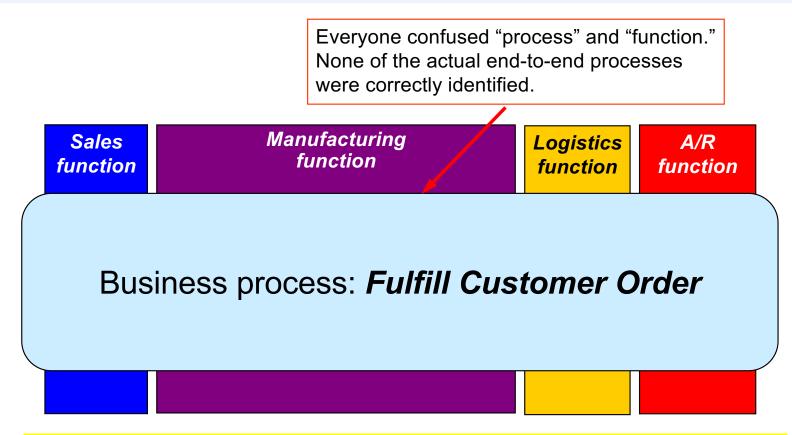


The problem? *These aren't processes – they're functions!*

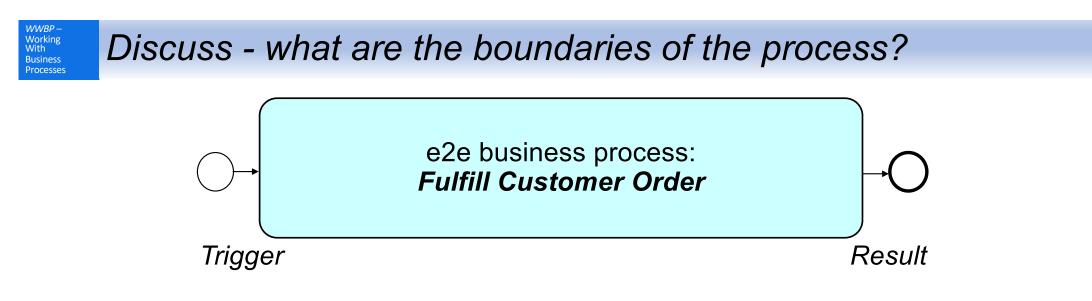
The "real" business processes were missed

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"Business Process" = end-to-end, cross-functional, business process. "Larger" than people think – from <i>initial trigger to *final* results.





What are the boundaries of the process?

e2e business process: *Fulfill Customer Order*

Trigger

Order received? No.

Before that...

- Contract is Finalised
- Price & Schedule are Negotiated
- Specifications are Confirmed

And before that...

• Demand is Signalled. Yes.

Always trace to the *earliest* trigger, and to the *final* results for *each* stakeholder.

Result

Order is Shipped? *No.* Order is Received? *No.* Order is Received, Tested, and Accepted? *Yes.*

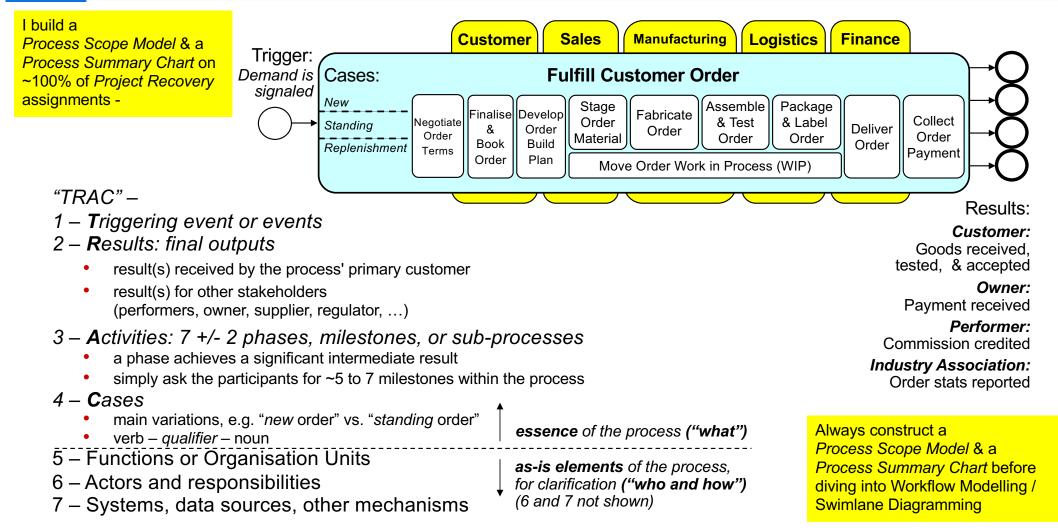
Any other results? Yes, for other stakeholders.

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Process Scope Model – "what" first, "who and how" later

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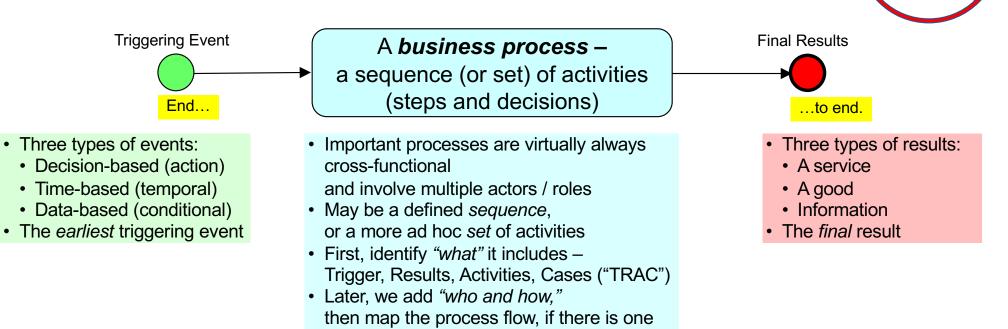
The essential framework

Business Process:

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- a sequence (or set) of *activities* (steps and decisions,)
- initiated in response to a *triggering event*,
- that achieves a defined result for each process stakeholder



"What" before diving into the "who and how"

Nout -

Output

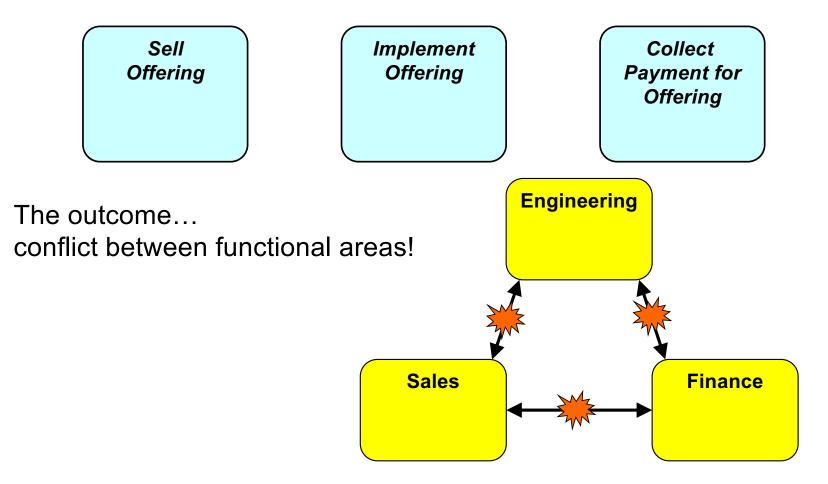
Process -

Another Business Process example

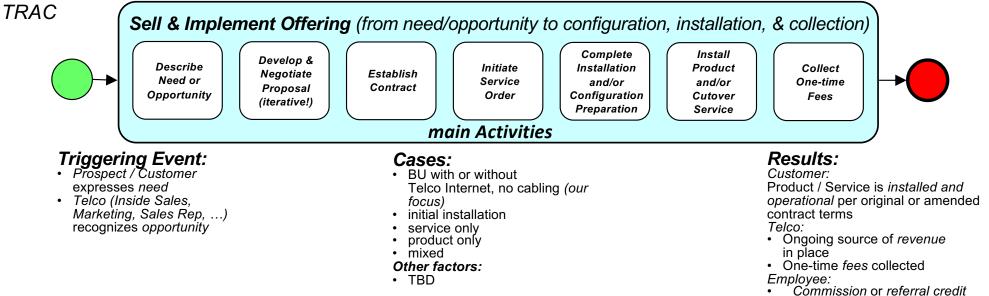
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A regional telecommunications provider (the "Telco") thought they had three main Business Processes, and efforts to improve them were failing:



Process Scope Model showed ONE process not THREE



The "token," a Service Order, is changing state from *need/opportunity* to *configured, installed, & collected*.

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The Business Process could be named "Fulfill Service Order" but the client wanted to name it "Sell & Implement Offering."



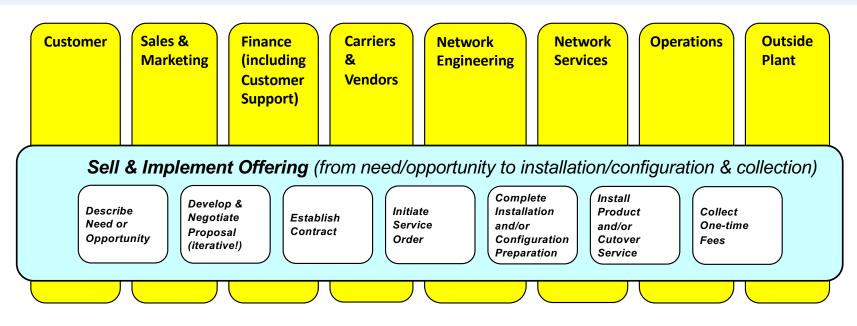
President reports *culture change*. "We're all in this together!"

Commission

Agent:

An end-to-end, cross-functional Business Process is a great lens to view organisation conflict and disfunction!

Process Summary Chart – my favourite diagram!



Process Summary Chart (a.k.a. "Process vs. Function Chart") adds "who" at the organisational unit or functional level.

Nothing else clarifies "Process" vs. "Function/Organisation" as well.

Great for putting details of Activities or Functions in context, e.g. ...

<u>Multiple</u> roles by organisation for "Sell & Implement Offering"

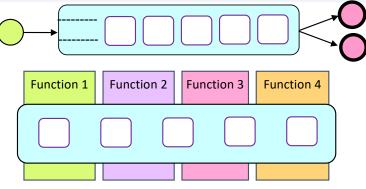
| Customer | Sales & Marketing | Finance (including Customer Support) | Carriers & Vendors | Network Engineering | Network Services | Operations | Outside Plant |
|--|--|--|--|---|--|---|--|
| Roles: Office manager or Owner (Smaller) IT (Larger) C-level (CIO, COO, CFO) Third party IT vendor or agent Customer Project Coord. | Roles: Senior. Account Execs Strategic Rel'nship Managers Account Rep 1 Inside Sales Rep | Roles: Sales Admin Order Writer Billing Rep. Customer Support Rep. Director of Customer Support Receiving and Posting Payments | Roles: Port Out Specialist (for CS Record) CSR/LSR IT Person Local government "Call before you dig" Customer Project Co- ord (int/ext consultants or phone vendors) | | Roles: BU Tech (survey) Switching Specialist (NS Spec) Network Services Coord / Provisioner | Roles: Sales Engineer CLEC Technician Material Manager Materials Specialist Project Manager Customer Training & Support Install Supervisor | Roles: Drop Crew Lineman (not usually) Engineering Supervisor Outside Records Specialist |
| | | (what role does this?) | | It was a shock to senior leadership to see how many roles were involved, often overlapping or unnecessarily | | | |



Many benefits to starting with a Process Scope Model

Why start with a *Process Scope Model?*

Then a Process Summary Chart?



- People see themselves as part of something larger and more important than their own job, department, systems, ...
- Without this, issues and objectives will be seen in functional (organisational) terms
- Actual client comments The focus on what...
 - adds clarity and critical thinking.
 - highlights how far removed the "as-is" is from "what" we're trying to do.
 - avoids the tension that comes with "who and how," which is personal (it depersonalises in a good way

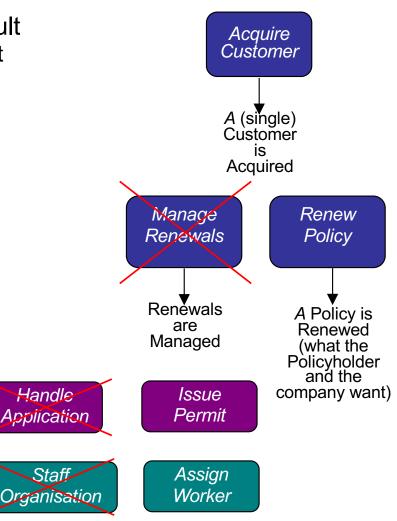
Naming conventions will make life easier

- 1. The process name *must* indicate the expected result
 - Name potential process in "active verb noun" format
 - Restate that name as a result ("noun is verbed")
 - Ensure this is the intended result of the process: *discrete*, so results are *identifiable* & *countable*
 - *No mushy verbs:* manage, monitor, administer, handle, track, support, maintain, etc.

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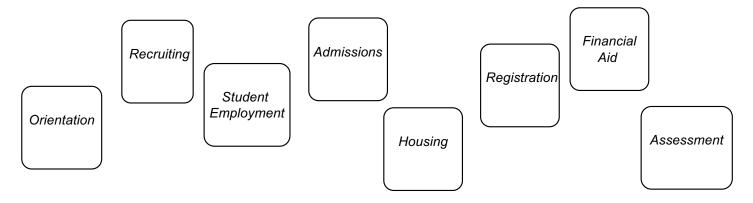
- Active verbs only: Evaluate Prospect, Acquire Customer, Fill Customer Order, Resolve Customer Issue, ...
- Applies to business processes, phases (subprocesses,) activities, steps, ...
- 2. Name process from customer's perspective (what do they want from the process?)
- 3. Name process in the singular



An example from higher education

As part of a strategic initiative to address falling graduation rates, a university took a process-based approach to determine why they were failing to admit the most promising candidates...

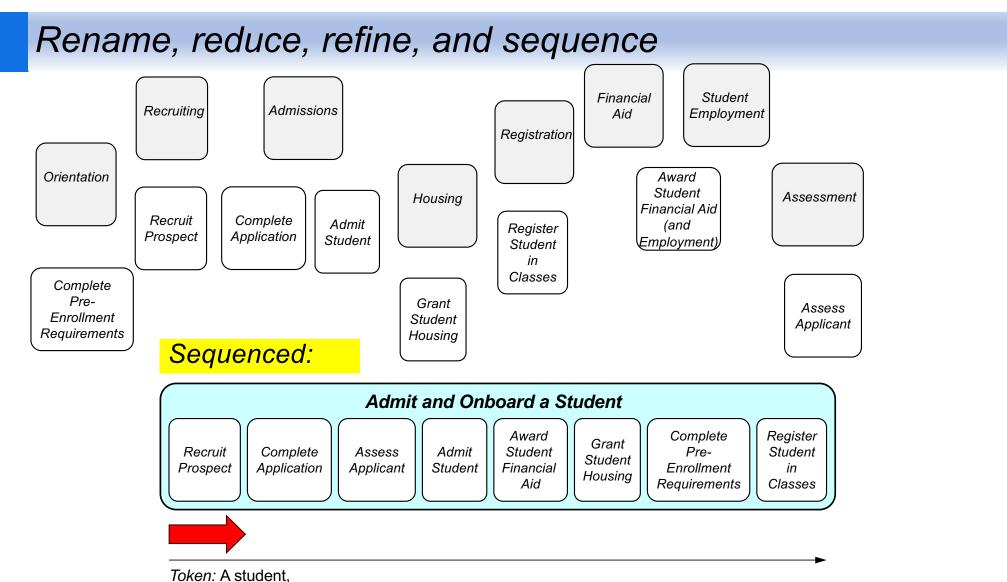
The "processes" that were initially identified...



Are these good business processes?

NO! Each of these is a department or function.

We convened a facilitated session to determine the "real" process

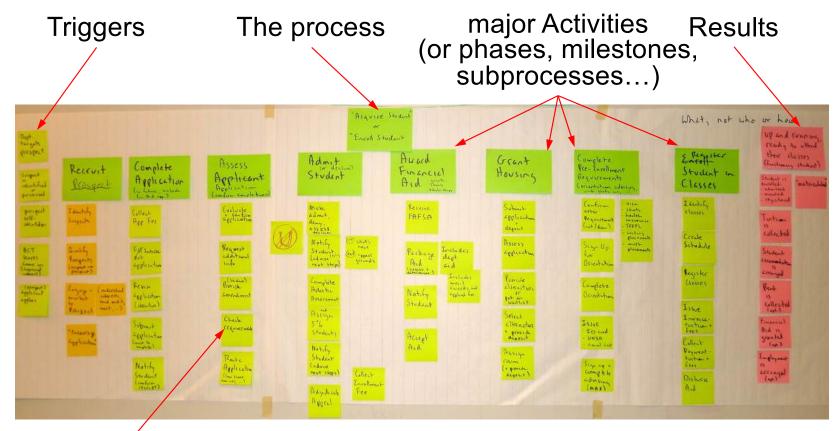


from prospect to registered

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From the session – "Is it a single X-functional process?"



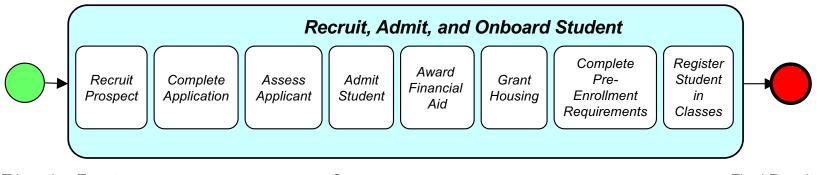
More detailed activities

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> Focus is on "what, not who or how." Note the high-tech tools. Very iterative, but only 90 minutes!

The cleaned-up "Process Scope Model"



Triggering Events:

- Dept. targets prospect
- Suspect is identified or purchased
- Prospect self-identifies
- · ACT scores come in
- Prospect applies
- ...

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TRAC –

- Trigger
- Results
- Activities (~5-7 phases or milestones)
- Cases (major Variants)

Cases:

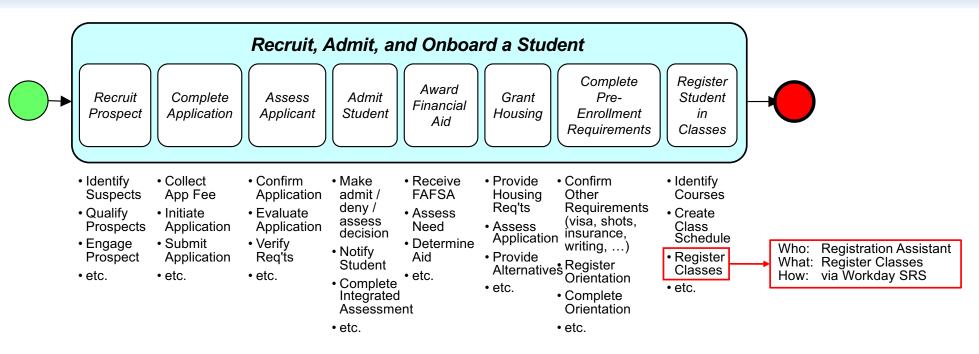
- In-state undergrad
- Out-of-state undergrad
- ...

Final Results:

"Up and running," ready to attend classes:

- Student is:
 - admitted
 - oriented
 - registered
- · Tuition is collected
- Student accommodation is arranged
- Financial aid is granted
- Employment is arranged
- ...

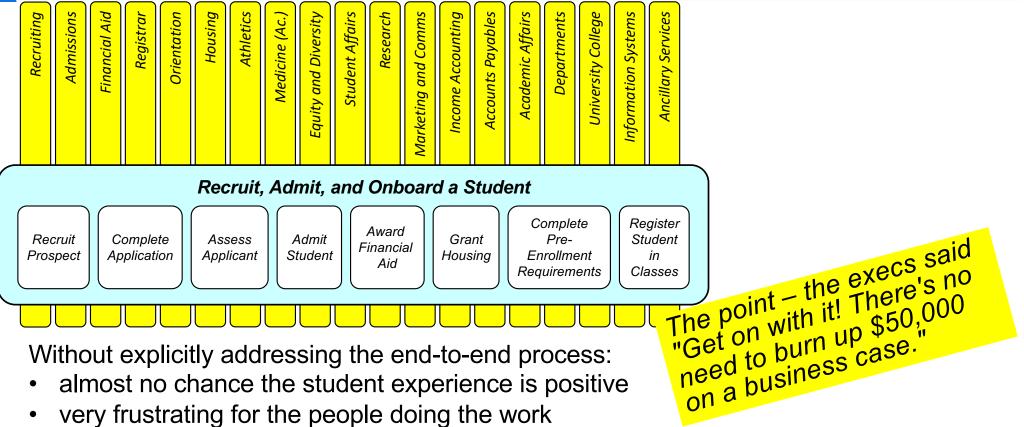
The cleaned-up "Augmented Scope Model"



Typically, 5 – 7 activities identified within each major activity. Initially just "what" (verb – noun) – later, add "who and how," e.g., Registration Assistant (who) Register Classes (what) via Workday SRS (how)

Identifying the functional area responsible for each activity revealed the process was massively cross-functional...

Process Summary Chart shows an astonishingly cross-functional process

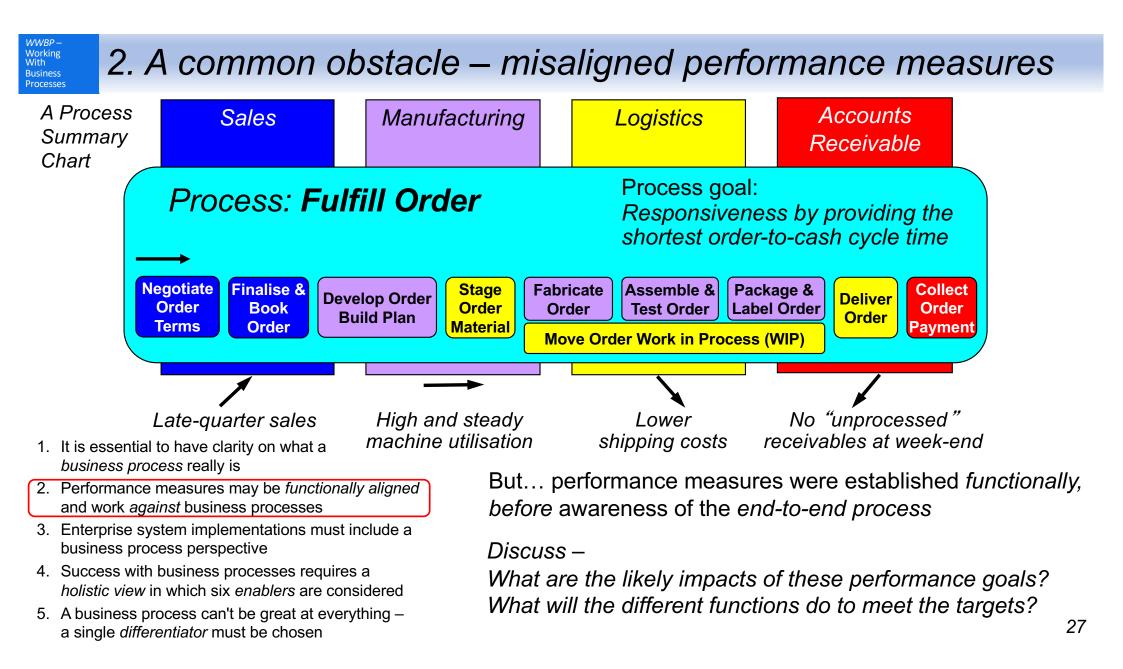


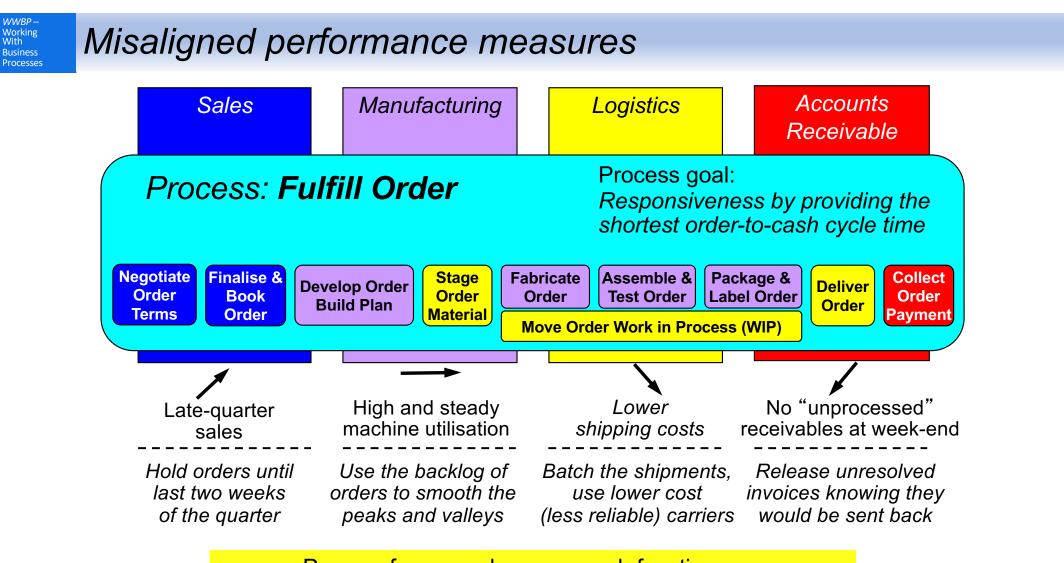
- Without explicitly addressing the end-to-end process:
- almost no chance the student experience is positive •
- very frustrating for the people doing the work

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- almost no chance the university is going to meet its goals *Two key points:*
- Functions are doing their best to optimise their activities 1.
- A multitude of dis-integrated systems and data sources are being used 2.

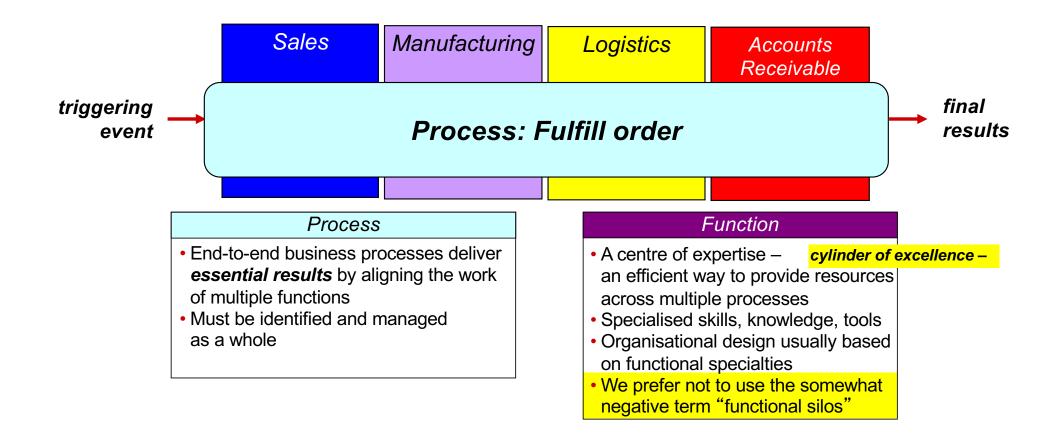




Poor performance because each function was working hard to meet uncoordinated, functional targets



This <u>doesn't</u> mean functions are bad!

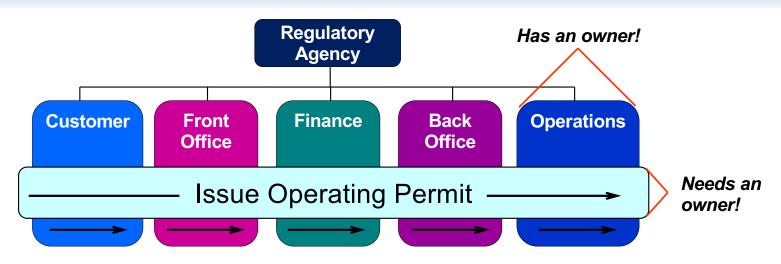


Ultimately, business processes are all about alignment

Processes and functions – three key points

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- The first step in managing processes is to determine what they are – they don't identify themselves
- Performance goals for the functions must align with (or be balanced against) the performance goals of the process
- Processes need an owner / steward to set direction, ensure alignment, and resolve conflict

It takes concerted effort – nothing happens by accident

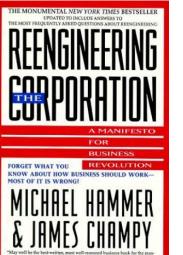
3 – Processes and information systems

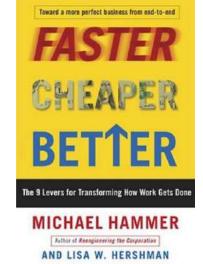
- 1. It is essential to have clarity on what a *business process* really is
- 2. Performance measures may be *functionally aligned* - work *against* business processes
- Enterprise system implementations must include a business process perspective
- 4. Success with business processes requires a *holistic view* in which *six enablers* are considered
- A business process can't be great at everything – a single *differentiator* must be chosen

"Success with SAP Implementation"

Study by the late Michael Hammer, "godfather of BPR"







Observed that success of SAP implementations varied *wildly*

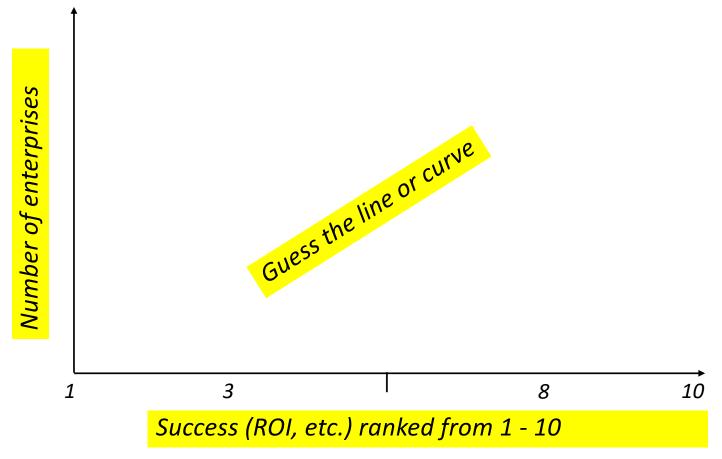
Worked with ~80 companies to assess their degree of success with SAP implementation

Success with SAP implementation

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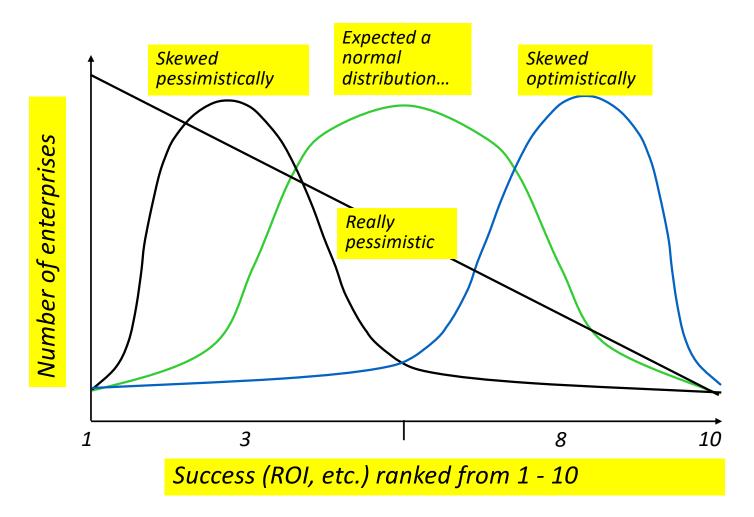
Business Processes

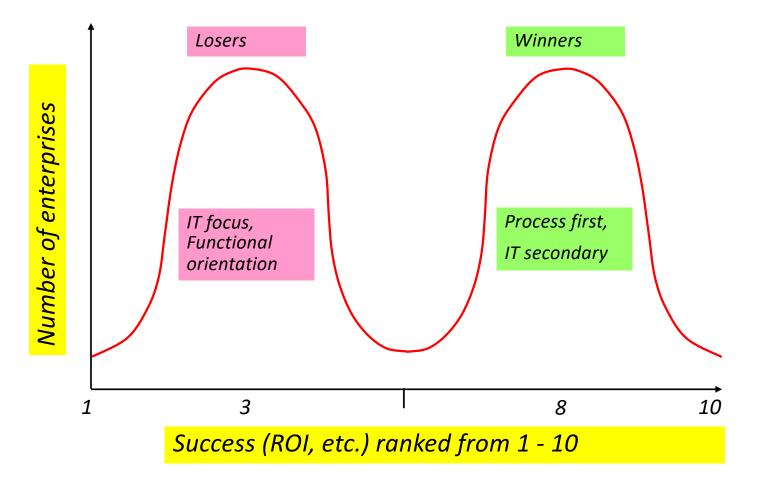
Hammer plotted the number of companies for each "success" ranking



32

Hammer not sure what the outcome would be





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Returning to an earlier example

Global manufacturer implementing SAP

Four primary modules:

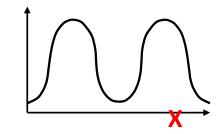
– Sales

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- Manufacturing
- Logistics
- Finance

Determined to *do it right:* "This will be a *process-oriented* implementation!"



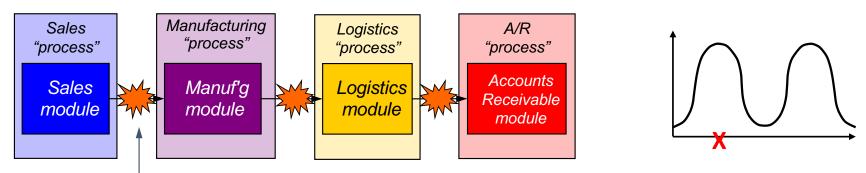
35

Impact of confusing function and process

Implementing SAP without clarity on "process":

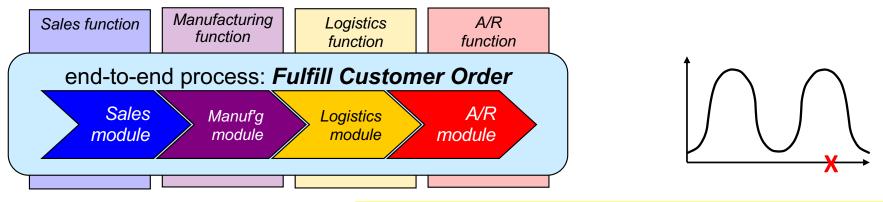
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Conflicts: timing, coding, terminology, data formats, performance targets, ...

SAP re-implemented in a process-driven configuration:

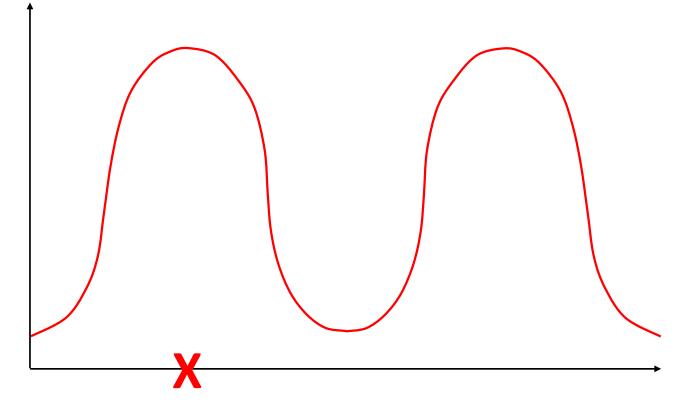


Same software, radically different outcomes

Staying "right" in an "entropic" environment

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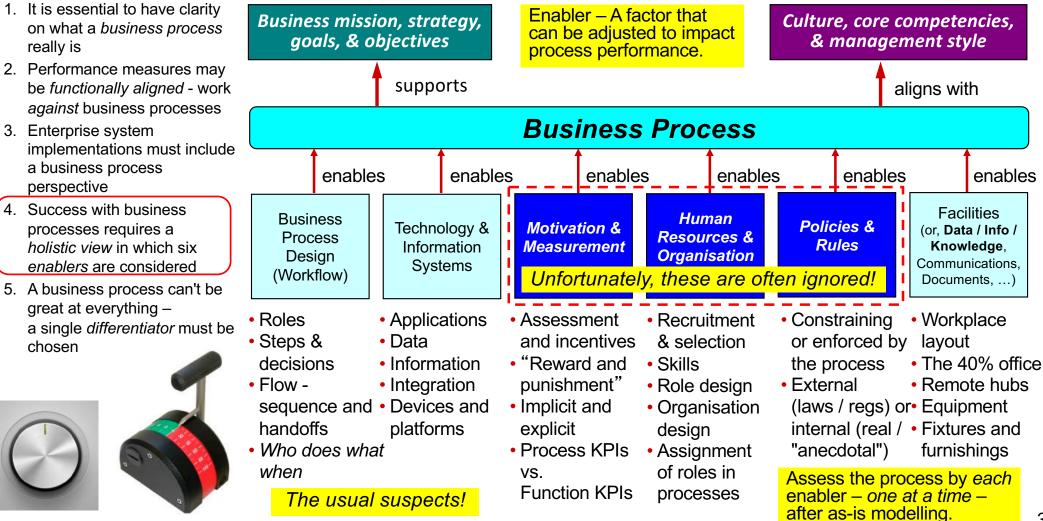
Business Processes



There will always be a pull back towards functional comfort

- ongoing management of the process is critical!
- all enablers must be addressed for a sustainable process

4. A holistic view for process analysis and design

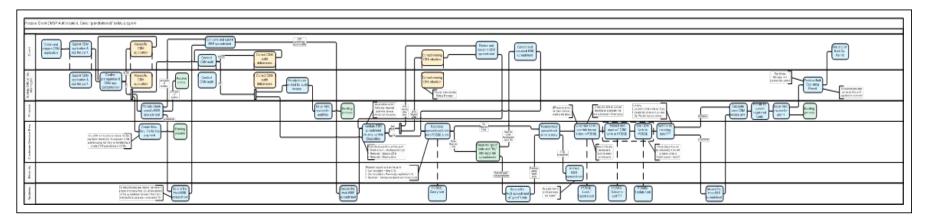


We model the as-is process to support assessment by enabler

As-is modelling maps *reality – who*, does *what*, *when*.

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This supports a *fact-based* assessment of the *as-is* process by enabler.

| Process Workflow Design:Information Systems & Technology:Is each step adding value, placed at the right point in the process, sequential or parallel as appropriate, performed by the best role, etc.?Information Systems & Technology: Are the process, and the actors supported by the right systems and technology? | <i>Motivation & Measurement:</i> How is the performance of the steps, the actors, the participating functions, and the process measured, and what are the consequences? | Are roles suitably broad, are organisations | constrain or are enforced by the | <i>Facilities</i> (<i>or other</i>): Are the layout & furnishings optimal or do they impede the process? (Many clients instead use this enabler to consider data, info, and knowledge.) |
|--|--|---|-------------------------------------|--|
|--|--|---|-------------------------------------|--|

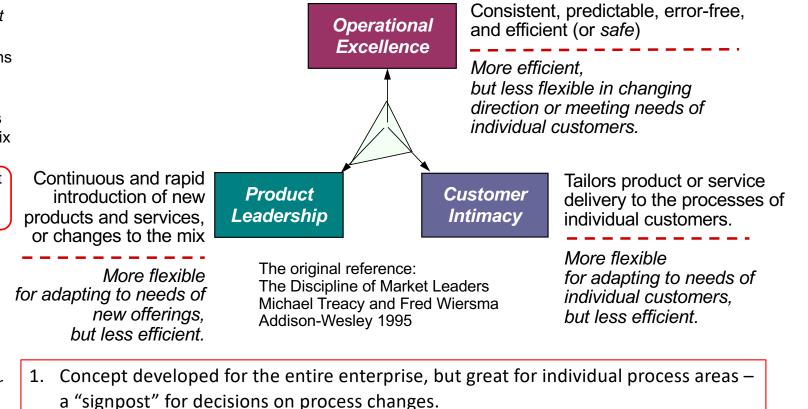
5. Process goals: know your "differentiator"

- 1. It is essential to have clarity on what a *business process* really is
- 2. Performance measures may be *functionally aligned* - work *against* business processes
- 3. Enterprise system implementations must include a business process perspective
- 4. Success with business processes requires a *holistic view* in which six *enablers* are considered
- A business process can't be great at everything – a single *differentiator* must be chosen

As noted, this is one of the things I do on ~100% of *Project Recovery* assignments -

- 1. Build Process Scope Model & Process Summary Chart
- 2. Develop Case for Action an As-Is Assessment by Stakeholder
- 3. Establish the *Differentiator*
- *4.* (Optionally conduct an *As-Is Assessment by Enabler*)

Great processes don't try to be all things to all people – strive to be *great* at one differentiator, and *good* at the other two...



- 2. Processes in an enterprise do not all have the same differentiator.
- 3. The Process Differentiator can change over time *slowly!*

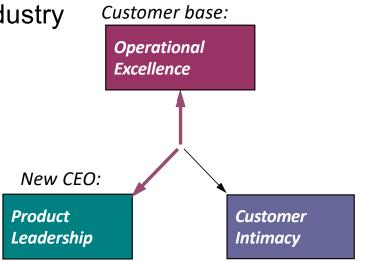
Example: "differentiator confusion"

Getting it wrong can be expensive...

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- Insurance company recruits CEO from high tech industry
- New CEO decides "innovation is everything" \$100M spent on process redesign and system development in support of "innovative car insurance products" – *Product Leadership*
- Total failure customers wanted affordable, easy to understand, easy to buy insurance – Operational Excellence (Op Ex)

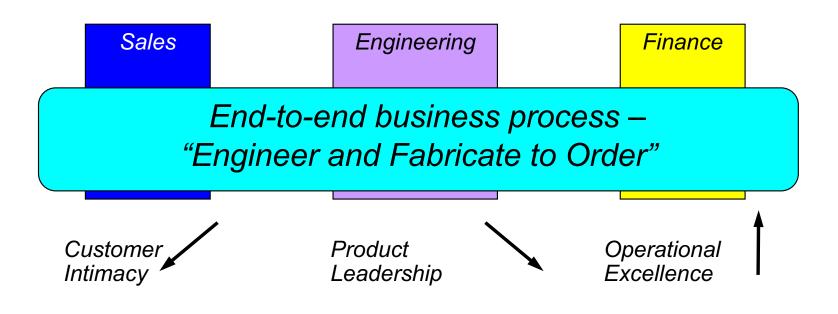


Three common differentiator problems

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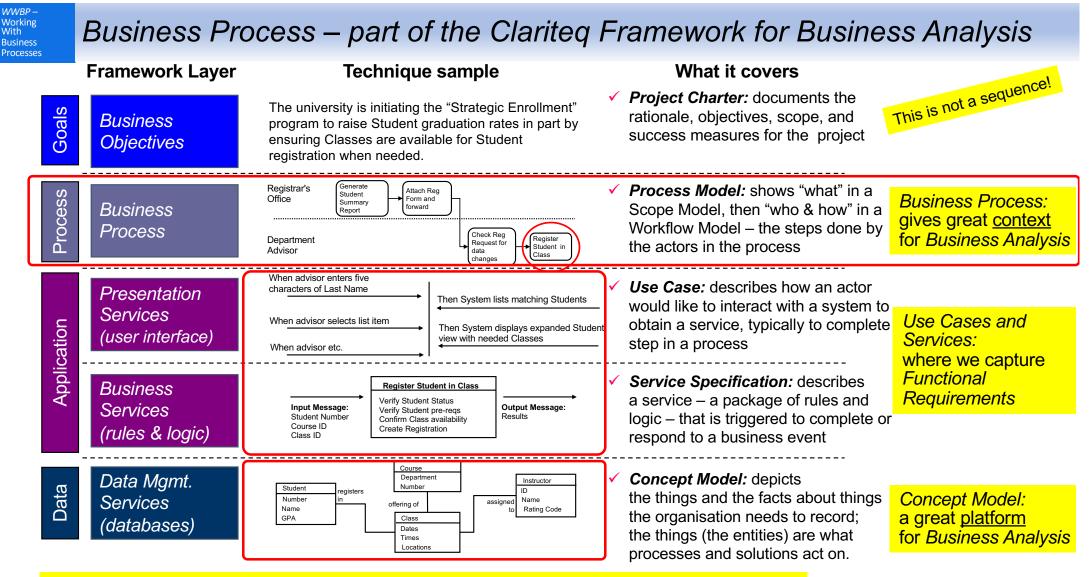
Business Processes

- 1. Focus on the wrong differentiator *customer alienation*
- 2. No differentiator or trying to excel at *multiple* differentiators stressed workforce and lower performance Bermuda Triangle
 - *Operational excellence* "We must be the low-cost provider!"
 - Customer focused "We must do what it takes for each client!
- 3. Conflicting differentiators within functions of a process *lower performance*



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Stuck in the

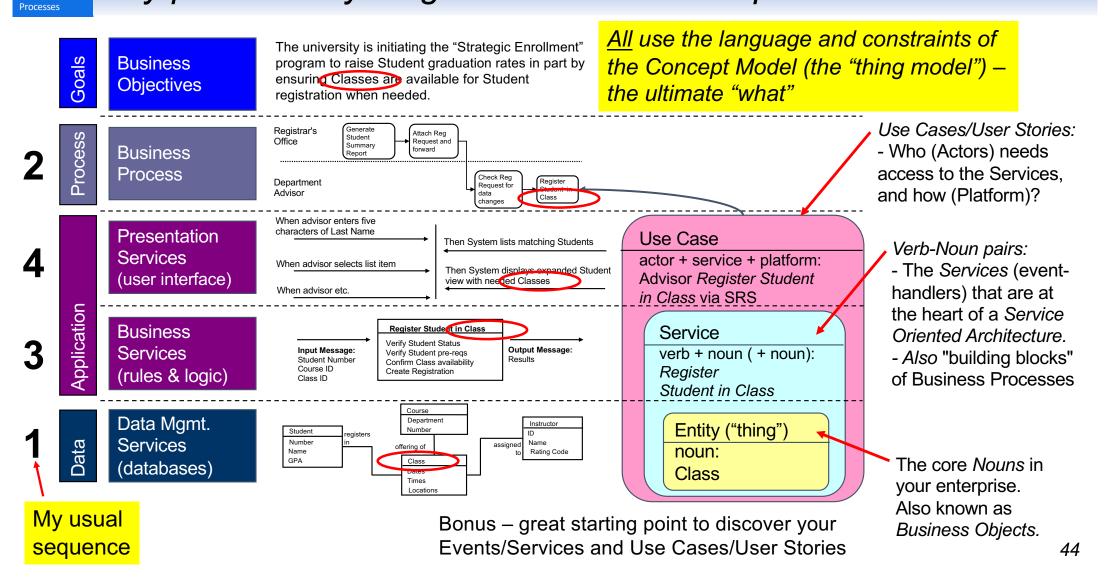


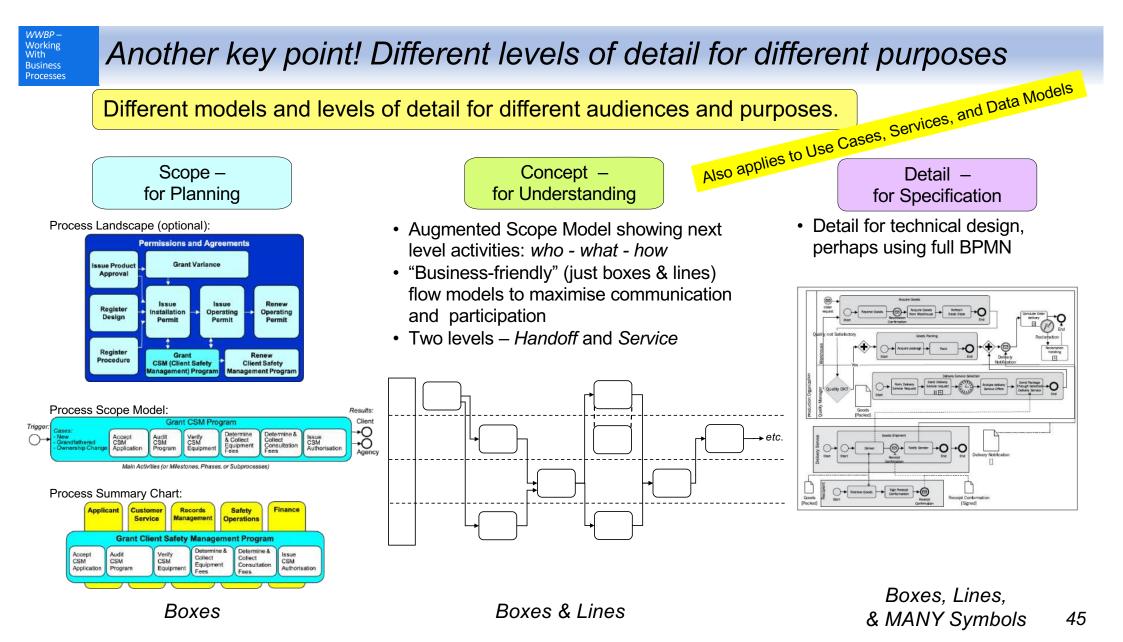
Only four types of models vs. 14 in the UML! (Unified Modelling Language)

Key point! Everything relies on the concept model

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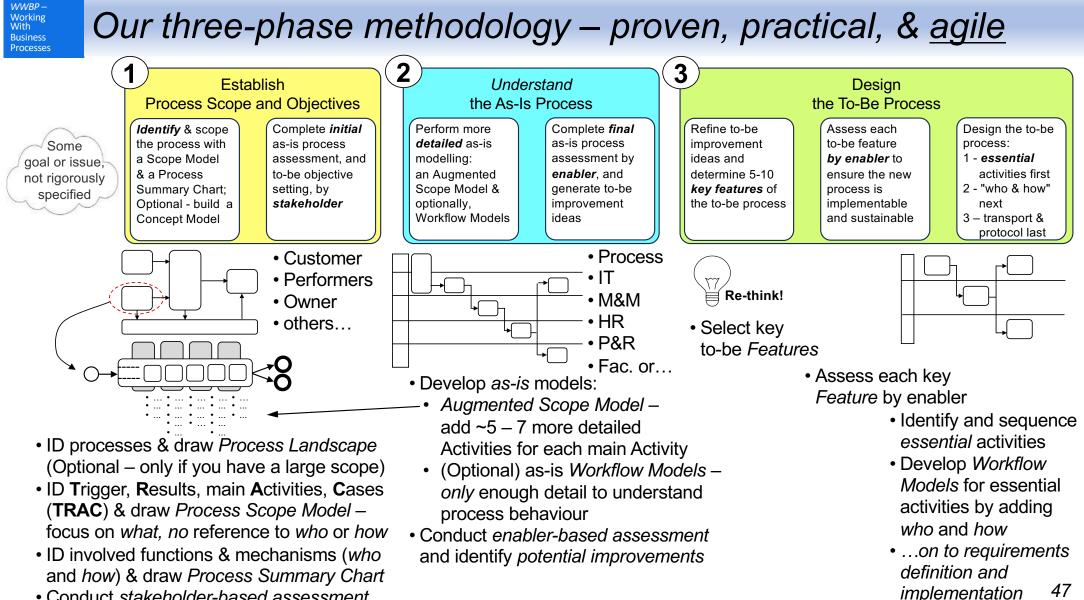




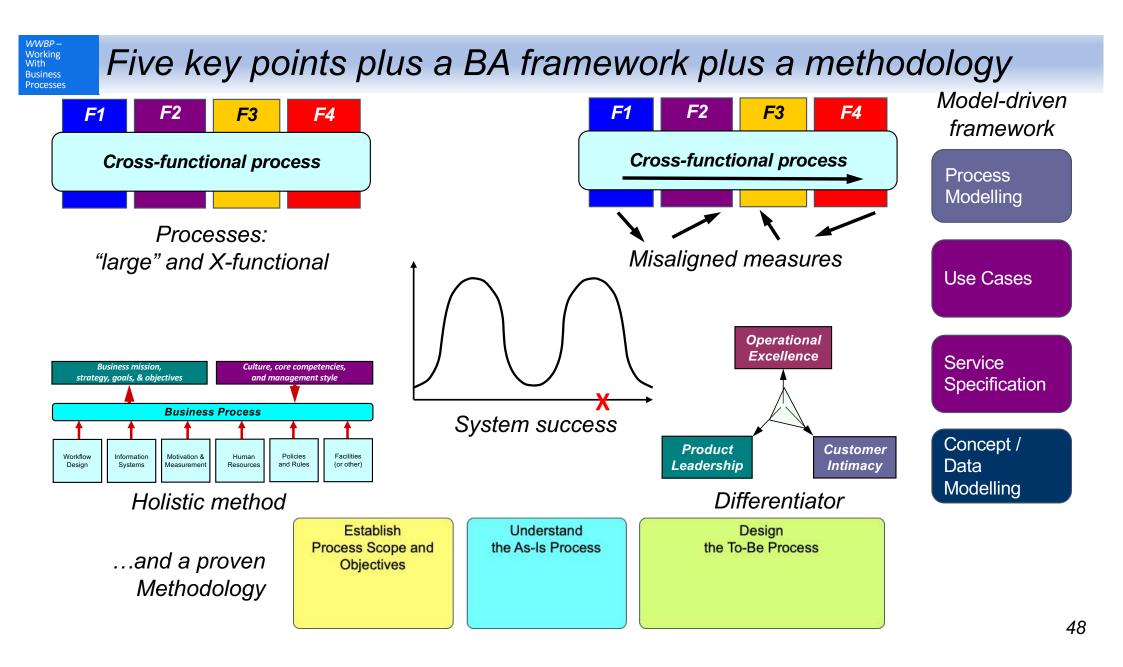
Specifics on progressive detail for <u>all</u> techniques

Clariteq Framework for Business Analysis

| Goals | Business Objectives | Project Charter: primarily "Scope" level - may evolve | | | | |
|-------------|--------------------------------|---|--|---|--------------------------|--|
| Ğ | | Scope | Concept | Detail | | |
| Process | Business Process | Process Landscape showing target and related processes, Process Scope Model, initial assessment and goals. | As-is (and later, to-be) Workflow Models for the process' main variations (cases) to the Handoff level. | As-is Workflow Models to the appropriate detail, and to the Service level for to- be. Optionally, document procedures for manual to- be steps. | Process Modelling | |
| Application | Presentation Services | List of the main Use Cases in the form: Actor + Service + (optionally) Technology / Platform (named only.) | Initial Use Case Modelling (goal, stakeholder interests, use case abstract) for each Use Case. May include initial dialogs. | Use Case dialogs in "when-then" format, annotated, and including alternate sequences. Optionally, Use Case Scenarios. | Use Cases | |
| | Business Services | List of main Business Services (named only.) | Initial Service description - result, main actions, cross- referenced to Concept Model | Each service fully documented, including input/output messages, validation, business rules, and data updates to the attribute level. | Service Specification | |
| Data | Data Management Services | Contextual Model (optional) and a glossary defining the main entities and other important terms. | Concept Model (Business Object Model or Conceptual Data Model) with main entities, relationships, attributes, and rules. | Fully normalised Logical Data Model with all attributes fully defined and documented. | Concept Modelling | |
| | | Plan | Understand | Specify | The "Agile Zon | |

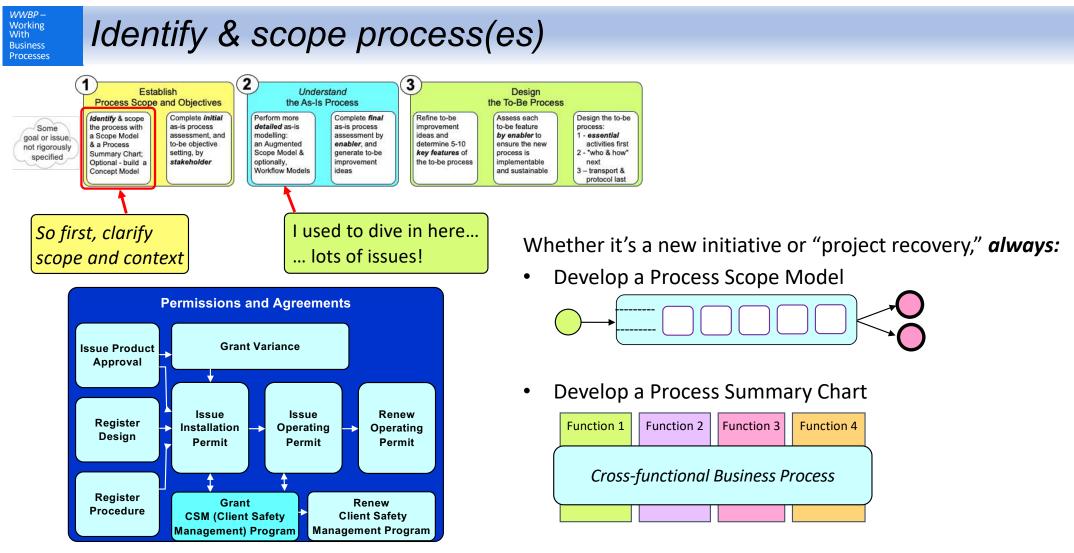


Conduct stakeholder-based assessment



Identifying and Scoping Business Processes

- 1. Business Process fundamentals
- 2. Identify true, end-to-end, cross-functional Business Processes
- 3. Clarify as-is process issues & to-be goals
- 4. Model the as-is process in a relevant way
- 5. As-is process assessment and tips for to-be design / redesign



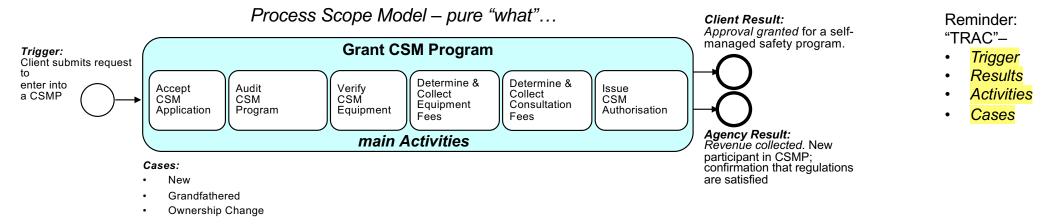
You *might* start at a higher level, with a *Process Landscape* – a decomposition of a business area into a family of *individual business processes*

Identify & scope process(es) (cont.)

First, use TRAC to understand what the process is...

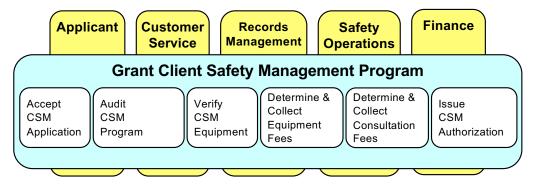
WWBP – Working With

Business Processes



Then a Process Summary Chart to put the process in context...

Process Summary Chart - simplified "what," plus "who" (and "how")



Now that we know *what, who,* and *how,* we can more accurately determine *why* this process need to change?

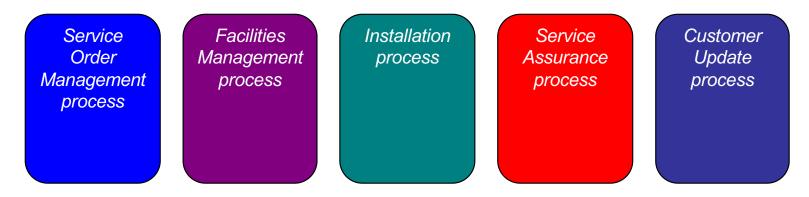
Does identifying end-to-end processes matter?

Regulator directs telephone company to improve its Service Provisioning processes

- Service Provisioning install new service, disconnect service, relocate service (ins, outs, moves)
- Five "business processes" misidentified:

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Business Process<u>es</u>



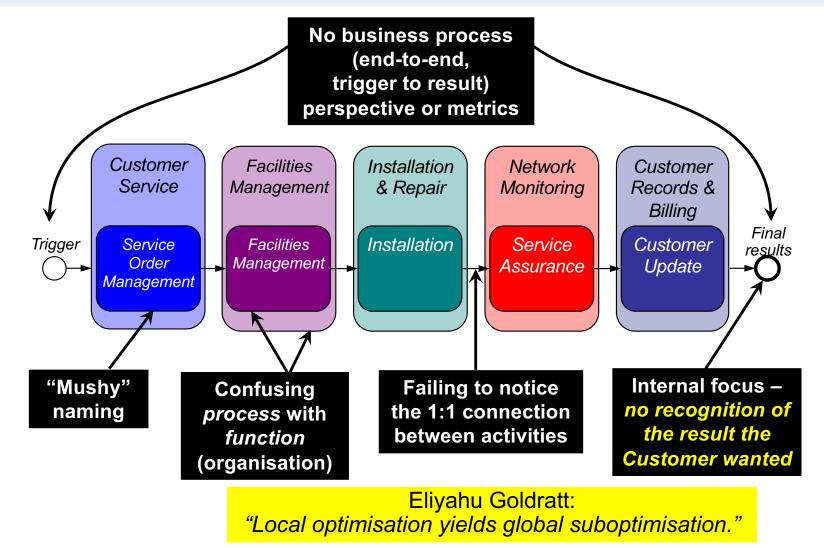
- Five teams started on "process" improvement, directed to achieve operational efficiencies
- Each team makes substantial improvements to efficiency within their "process," largely through new constraints like batching and scheduling of orders

The outcome...? Service is worse! Major financial impact! So, YES, IT MATTERS!!!

What errors did the Telco make?



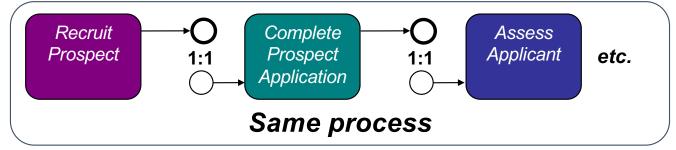
WWBP – Working With Business



WWBP – Working With When does one business process end, and another begin? Business Processes Customer result: Telephone The actual process: Fulfill Move Service Order Trigger: service Customer Confirm Assign Install Capture is moved Activate requests 1:1 1:1 Move 1:1 Service Service Service Customer telephone Service Order Order Quality Telco service Account Facilities Equipment Order result: move. Active 5 maior Activities (or Phases, Milestones, Subprocesses, ... account. receivable posted

Guidelines:

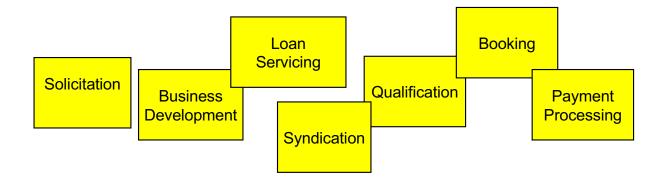
- If the result of one activity is the trigger for another activity, on a 1:1 basis, they're likely part of the same overall business process. A 1:M or M:1 signals a process boundary.
- If the "token" (a Service Order, a Student, a Trouble Report, ...) changes, that indicates a process boundary



We use this technique during process discovery

Process discovery example

A bank believed they had identified the 12 *business processes* in their Commercial Loans Management area, including these 7:



Discuss:

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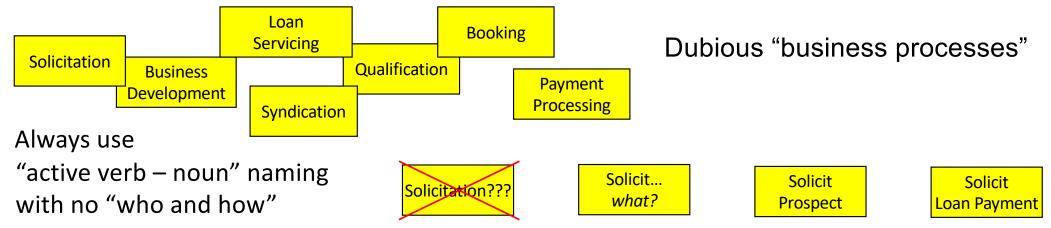
Processes

- What is wrong with the names of these processes?
- Can you think of any questions to help improve these process names?

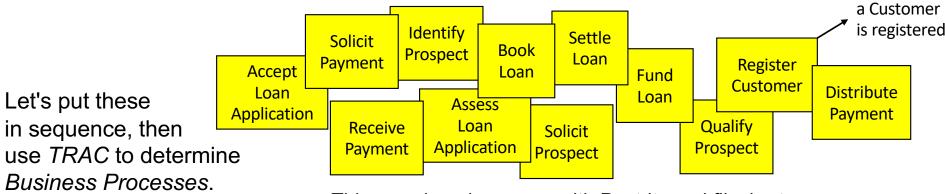
Bottom-up process discovery – example

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Business Processes



Client then identified recognisable activities, each producing an essential result (easy!)

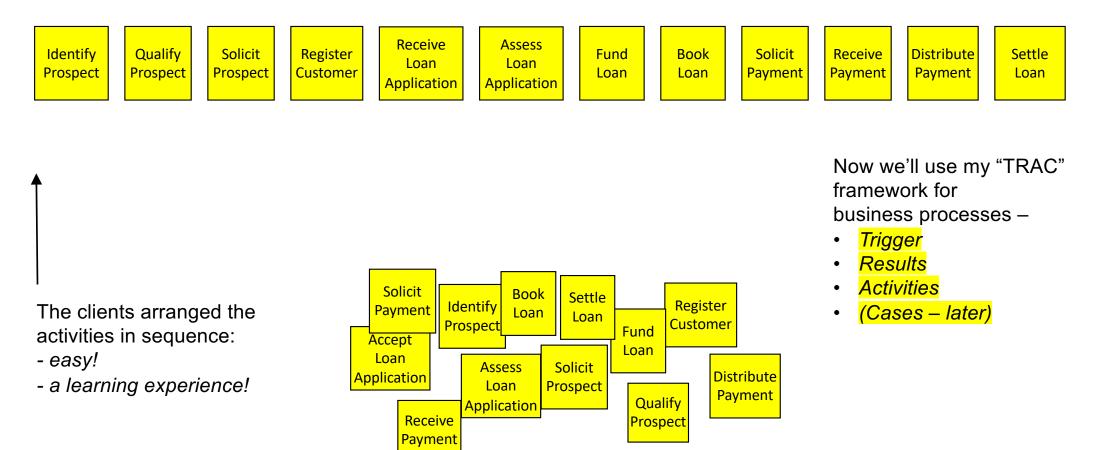


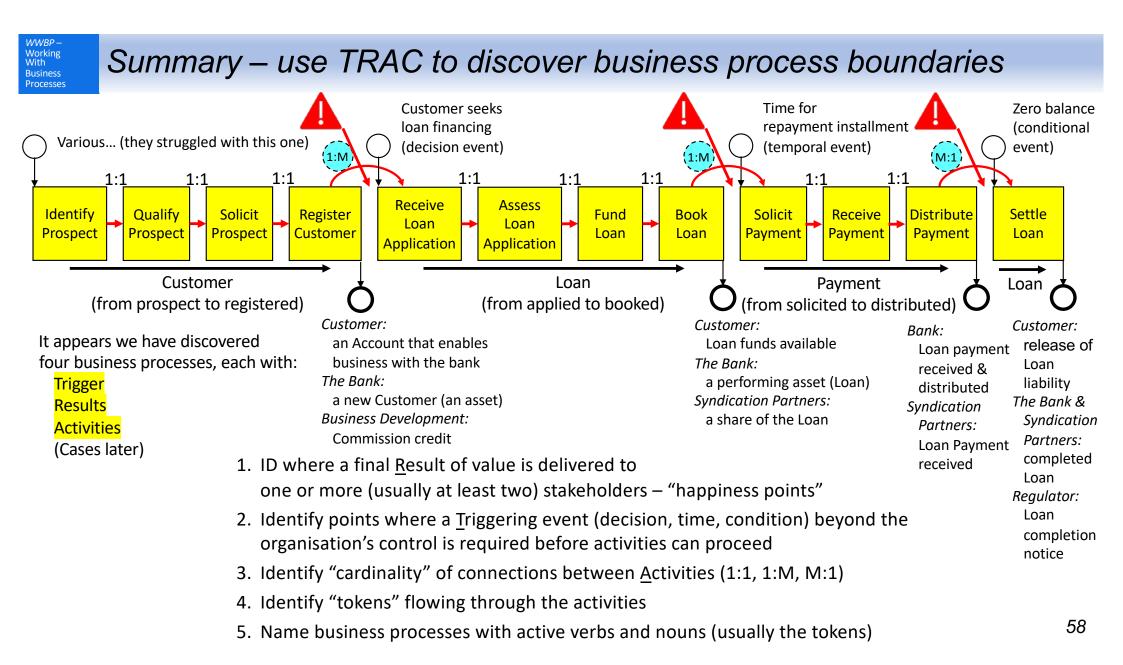
This was done in-person with Post-its and flipcharts but tools like Lucidchart and Miro work well virtually



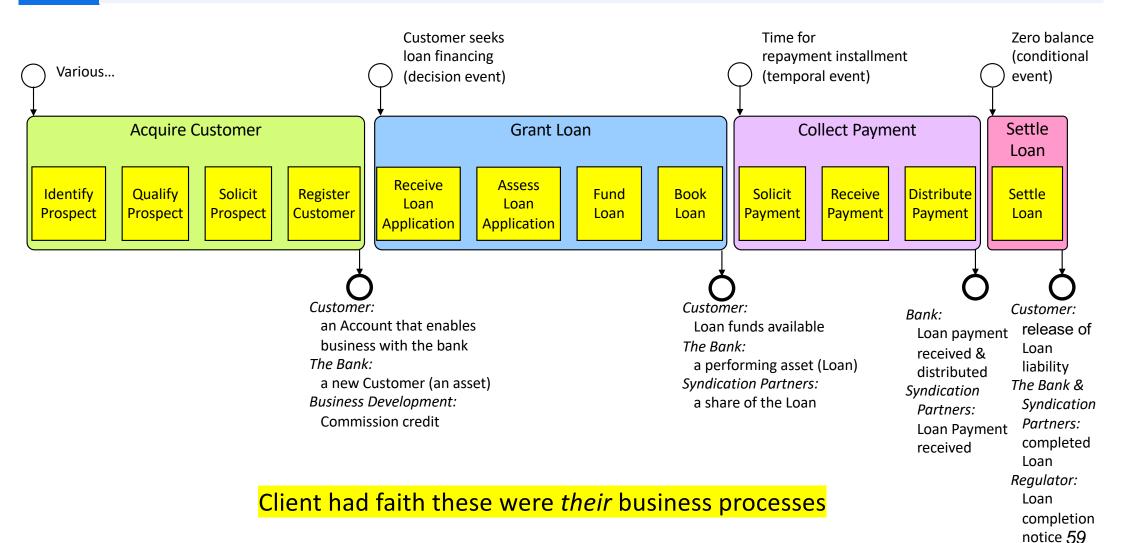
Summary – sequence activities

Not usually linear - parallel chains are typical





Four end-to-end business processes, objectively demonstrated



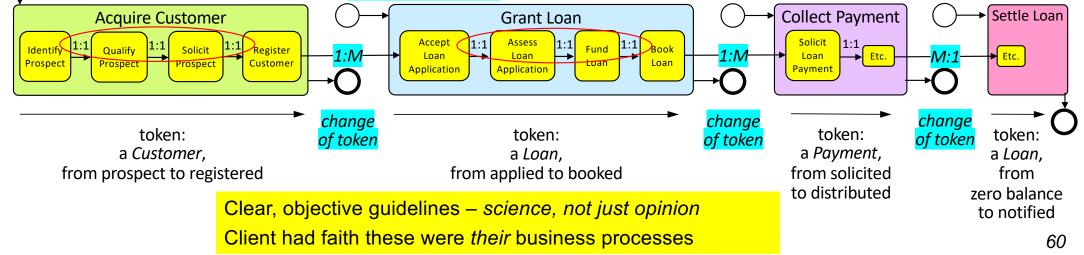
Six guidelines for well-formed processes, two clients <u>really</u> appreciate

1. "Active verb – noun" naming that indicates primary result

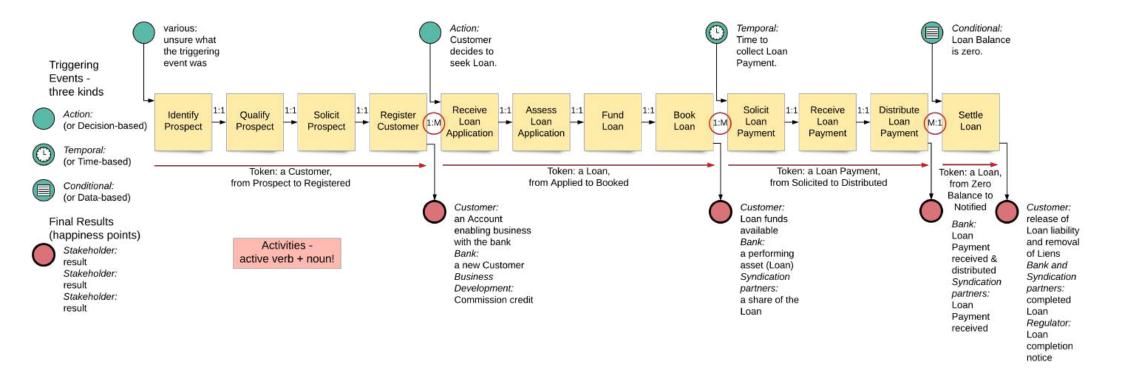
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Business Processes

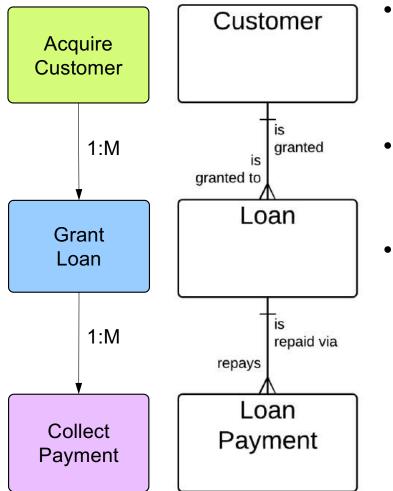
- 2. Triggered by an event (decision, time, data) outside process' control
- 3. At the end are results that makes one or more stakeholders happy
- 4. In between are ~5 to 7 major Activities (phases, milestones, subprocesses, ...)
 - Activities linked **1:1** are probably part of the same process;
 - a **1:M** or **M:1** connection between activities is probably a boundary
 - The same *token* moves through the whole process,
 - changing state, e.g. a Loan, from applied to booked;
 - there will be a change of token across a process boundary



Doing this virtually with a tool like Lucidchart...



Correspondence to the Concept Model



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Business Pro<u>cesses</u>

- The nouns in your verb-noun *Process* name are most often the *Entities* in your Concept Model, and each will usually have one primary *Process*
- The relative number of Process instances (e.g., 1:M or M:1) align with relationship cardinality
- This *does not* mean there is only one Process per Entity
 - Assess Customer Performance
 - Retire Customer
 - Merge *Loans*
 - Write Off Loan

. . .

WWBP – Working With Business What next? Processes A Process Landscape for the Process Area **Commercial Loans Management** "Commercial Loans Management" Acquire showing its four Business Processes. Customer More were added later. This is the beginning of the Grant Collect Settle Process Architecture. Simplify "up" Payment Loan Loan Various... Grant Loan **Collect Payment** Settle **Acquire Customer** Loan Receive Assess Identify Register Distribute Qualify Solicit Solicit Settle Fund Book Receive Loan Loan Prospect Prospect Customer Payment Payment Payment Prospect Loan Loan Loan Application Application A Process Scope Model for "Acquire Customer" Refine "down" **Acquire Customer** Customer: an account... Assess Assess The bank: a new Customer... Capture Register Solicit Prospect Prospect Biz Dev: commission credit... Prospect is Prospect Customer Prospect Financial Strategic identified Details Account Customer, Fit Health Bank, Biz Dev: Cases: Enterprise, SMB, no change 63

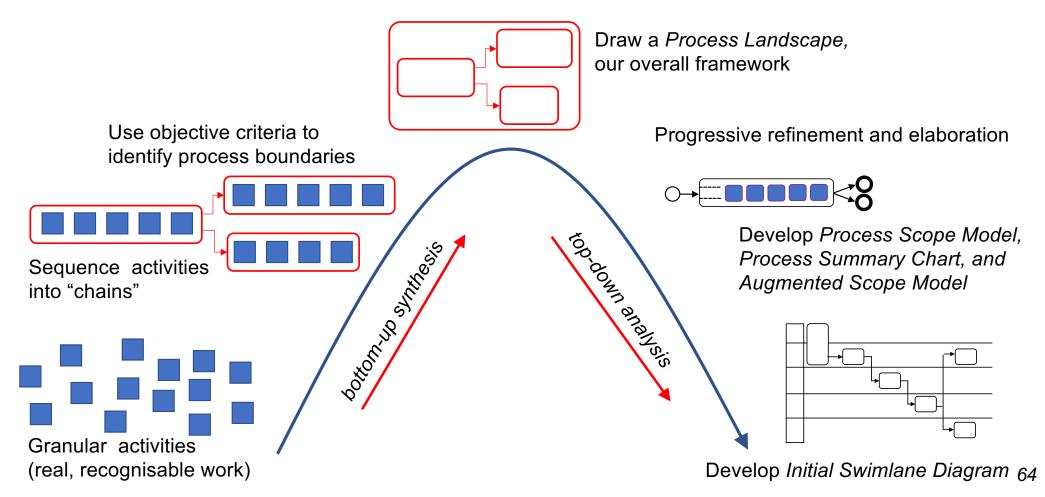
Retail, Government

The arc of modelling and analysis

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Business Processes

Start bottom-up to build overall framework – Continue top-down



Clarify Business Process as-is issues & to-be goals

1. Business Process fundamentals

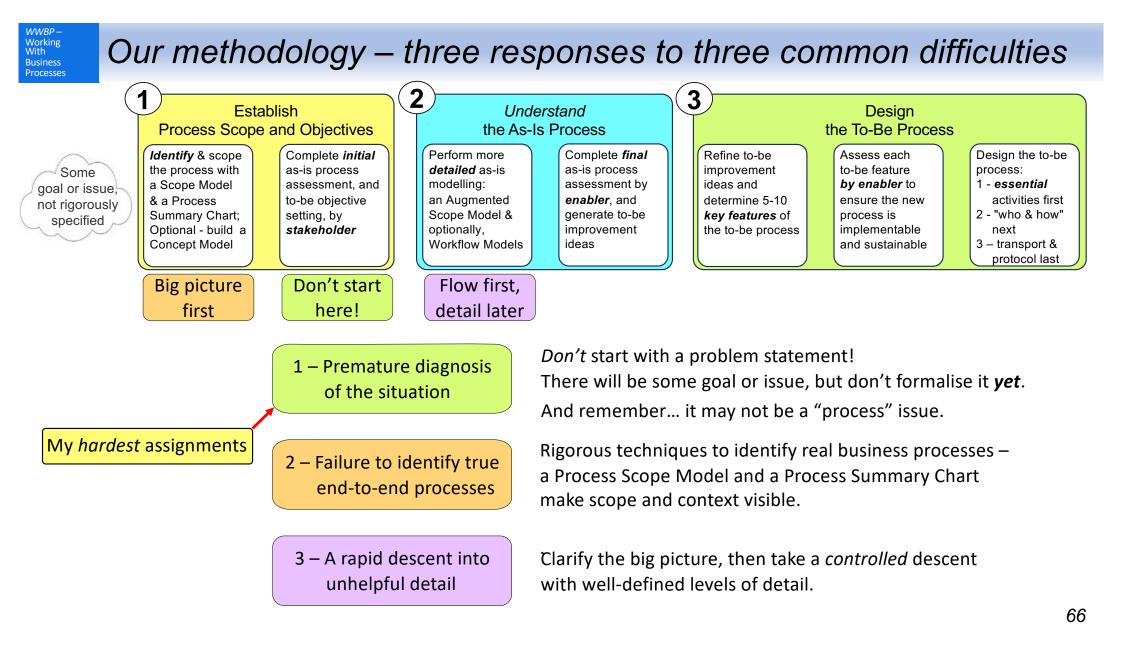
WWBP – Working With

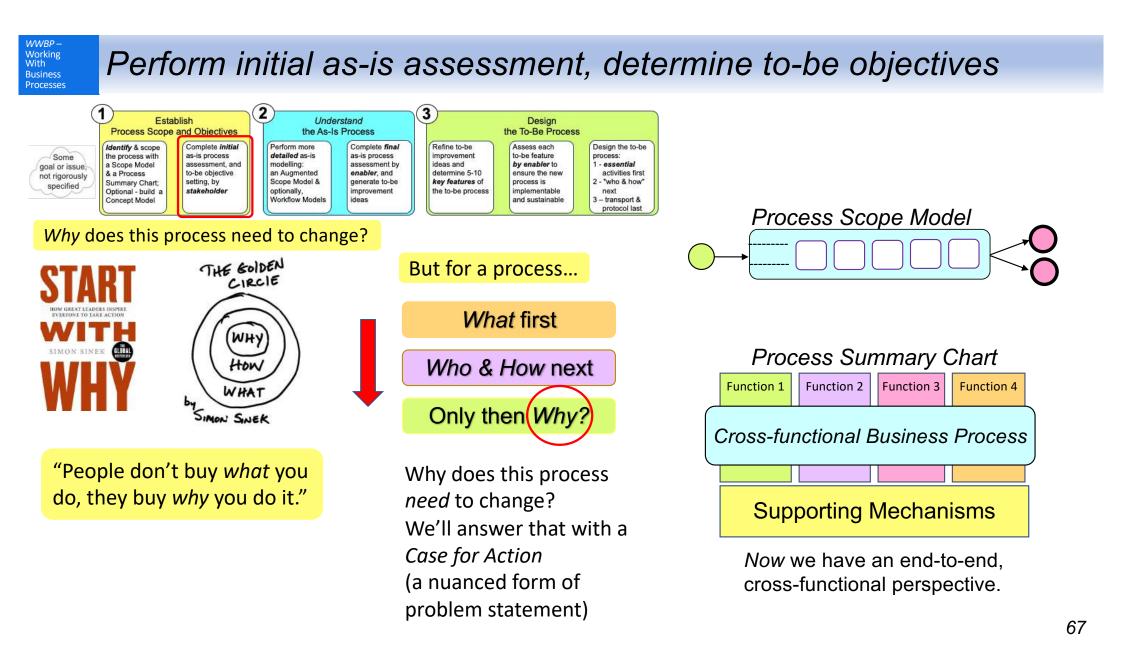
Business Processes

> 2. Identify true, end-to-end, cross-functional Business Processes

> 3. Clarify as-is process issues & to-be goals

- 4. Model the as-is process in a relevant way
- 5. As-is process assessment and tips for to-be design / redesign





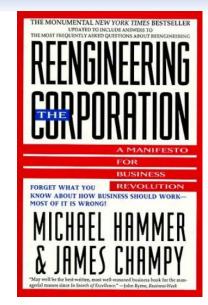
Michael Hammer's original "Case for Action"

Characteristics

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Business Processes

- a "wedge" or "prybar"; where we are, why we can't stay
- factual, not exaggerated
- concise, clear, compelling
- Five components
 - 1. business context what's happening?
 - 2. business problem essence of concern?
 - 3. marketplace demands requirements we can't meet?
 - 4. diagnostics why we can't meet them?
 - 5. costs of inaction what if we do nothing?
- I simplified it, re-sequenced it, and made it more stakeholder-focused



My version of Michael Hammer's "Case for Action"

1) Stakeholder assessment – makes it real What are the concerns of *each* stakeholder group?

Customer

NWBP ·

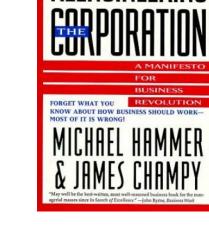
Working With Business

- Performers
- Owner/manager (the enterprise itself)
- Others (regulator, partners, ...) as needed

2) Context – makes it blame-free

What changes in the environment since the process was "designed" have caused these issues to surface?

3) Consequences of inaction – makes it compelling What will happen if the process is left as-is?





Yay – It's not our fault!



We're not

that bad!

We'd better get on with it! 69



1. Stakeholder concerns

"You must communicate in a clear and compelling way why the process has to change by completing the initial assessment for the as-is process."

Initial assessment – 3 components

Stakeholder assessment – makes it real

- Customer
- Performers
 (what's in it for me?)
- Owner/manager (the enterprise itself)
- Others, as needed

Initial assessment – typical questions

Customer:

- Are there too many interactions?
- Are rules, requirements, protocol reasonable?
- Can your work be located within the process?
- Are you the process integrator the human glue that connects the process steps?

Performer:

- What are your major sources of frustration?
- Do you have the necessary tools and support?
- Are there steps that serve no purpose?
- Are problems caused upstream? Does the workload vary wildly?
- What would you change if you could?
- Are there documented processes and procedures?

Owner/manager:

- Does the process use resources you would rather re-allocate?
- Is it a net contributor or a source of problems?
- Does the process constrain innovation, growth, or opportunities?
- Is it a source of customer or media criticism?

Context – makes it blame-free

"designed" have caused these

since the process was first

issues to surface?

2. Context – assessing changes in the environment

Areas to consider:

- Regulatory change
- Workforce changes (e.g., "recruiting and retaining" vs. "retiring")
- Emergent technology (AI, robotics, drones, What changes in the environment "SMAC" - Social, Mobile, Analytics, Cloud,) or current supporting technology is EOL ("End Of Life")
 - Changing customer expectations
 - Competition, especially new or emerging
 - Changes in business volume (growth or contraction)
 - Socio-political change
 - Environmental ("green") concerns
 - Change in business model (e.g., customised or standarised)
 - Change in business ownership (public, private,) M&A, divestiture
 - Change in government (post-election fallout)
 - Changes in business operating locations
 - Economic conditions
 - ... and many others (see "PESTLE")



3. Consequences of inaction

Consequences of inaction – makes it compelling

What will happen if the process is left as-is, and the status quo is maintained?

For the individual:

- Unsatisfying work environment?
- Diminished opportunities?
- Reduced employment or loss of employment?



For the organisation:

- Reduced performance?
- Reduced stature or reputation?
- Withdrawal from the market?



"Case for Change" example

Situation:

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Business Processes

- Manufacturing firm redesigns core Financial Reporting processes prior to COTS selection
- No progress! Project has descended into "the blame game"

Stakeholder assessment –

- *Customer* Financial markets / fund managers cannot get the info they need for investment decisions
- *Performers* Finance staff spend all their time on assembling "the numbers" with no time for value-added analysis
- Owner/manager CFO is under constant pressure and criticism from the financial markets and other executives

Context -

- Firm recently divested from a huge conglomerate
- Financial reporting was formerly to Head Office, but now is to financial markets which the processes were never designed to do

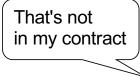
Consequences of inaction -

- Planned acquisition of competitor will not go ahead due to lack of financial market support for new bond issue;
- Firm likely to be acquired by the competitor. Uh oh... Finance staff quickly realised their employment was threatened and got on board!

Client was very happy!

Alec, I'm so happy I could just kiss you!





Then, establish process goals / improvement targets

"You must also provide a sense of direction by defining to-be process goals and objectives."

Subjective goals

Give people a *"feel"* for direction:

- "Customers will love this process because..."
- "Performers will love this process because..."
- "The process owner will love this process because..."

Measurable objectives

Provide *specific targets* Establish baseline to *prove* success Format:

- Topic (what will be improved?)
- Target (what is the measurable objective?)
- Timeframe (when will these results be realised?)



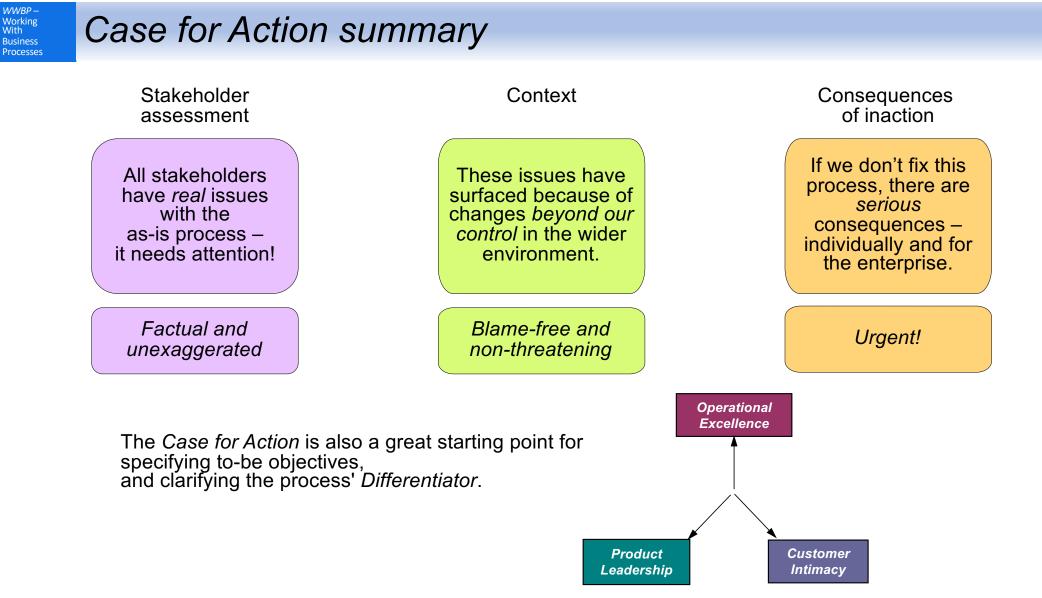
It may now be appropriate to introduce new process measures, metrics, and key performance indicators (KPIs,) and establish baseline performance

Example from in-person workshop – assessment to goals

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Processes

| Stakeholder-based Initial Assessment of the as-is. ("Case for Action") 1) Stakeholder concerns <u>Customer</u> : excessively "high touch" (too many meetings) long lead times from contact to publication eccors in ads and invoices | Stateholder-based goals for the to-be Subjective Objective "Why will they 'love'?" Intersource of the to-be "Why will they 'love'?" Intersource of the topic of topic of the topic of topi |
|--|---|
| Performers: too many review meetings Sales Rep: which cut into selling time- overhead ("administrivia") in order submission procedure <u>Production</u> Monday to Wednesday Crunch too many cycles to obtain ad approval <u>Finance</u> redundant ad order data leading to errors Iack of pricing controls <u>Owner</u> : ceiling on growth Just revenue still frustriction 2) Context: growth, customer expectations, IT, 3) Consequences of incition: Out of business | fewer or no meetings scheffrom burdensome order submission level workload more ads approved on first review elimination of ad order data cymbol growth and analy <ligrowth analy<="" and="" li<="" th=""></ligrowth> |



| – 1 – Identify, scope and assess the target process | | - 2 - Understand the "as-is" process | | - 3 - Characterise and design the "to-be" process | |
|--|--|--|---|--|--|
| Identify a set of related processes | Select target process and define "what" (essential scope) | Define as-is process "who and how" | the target process (Determine why process must change – "Case for Action" | Scope, Issues, goa Specify to-be process goals – <i>"Process</i> Goals " and Differentiator | Specify to-be process performance metrics |
| ID common terms Select core nouns (things) ID activities acting on things Link activities into processes Draw Process Landscape | What – TRAC: Triggering event Final <i>R</i>esults by stakeholder ~5 +/- 2 main <i>A</i>ctivities <i>C</i>ases / variations Draw <i>Process</i> | Who – Functions / Organisations / each Actor (optionally main responsibilities) How – supporting Mechanisms Draw Process | Stakeholder issues and concerns Business context (changes in the environment) Consequences of inaction Record <i>Case for Action</i> | Establish subjective goals by stakeholder Establish objective (measurable) goals Clarify differentiator Record <i>Process</i> | Determine basic measures Craft process metrics: strategically aligned outcome- based customer- |

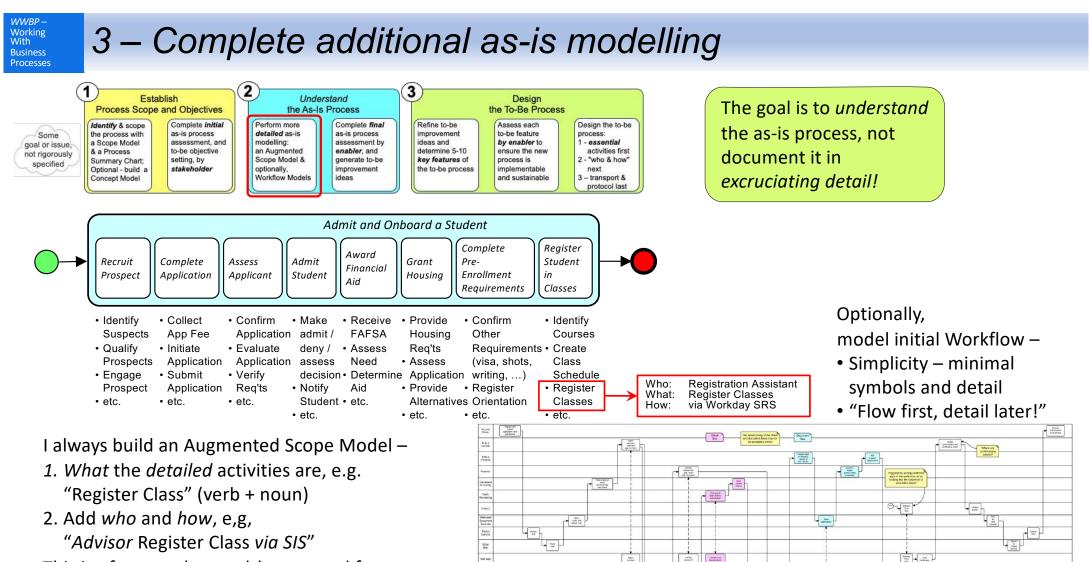
WWBP-Working With Business Processes This slide left blank by accident

As-is Business Process modelling

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Business Processes

- 1. Business Process fundamentals
- 2. Identify true, end-to-end, cross-functional Business Processes
- 3. Clarify as-is process issues & to-be goals
- 4. Model the as-is process in a relevant way, and *fast!*
- 5. As-is process assessment and tips for to-be design / redesign



This is often good enough! – no need for an as-is swimlane diagram / workflow model

www.lucidchart.com

UESP Not used in this case

latering britter

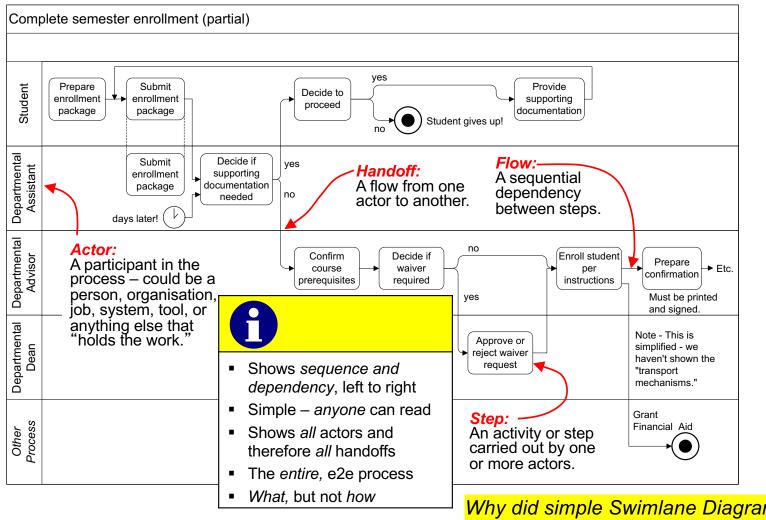
> Vorices: vapor Applications

Which Westy Function as used to contine ?

Visit
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-

Simple Swimlane Diagrams – maximise their strengths



how the steps are done:

step-by-step • procedures

capturing detail -

Who – the actors

What – the steps

When – the flow

Other tools are better for

- checklists •
- decision trees •
- use cases •
- etc. •

Why did simple Swimlane Diagrams become popular?

A quick Google Images search on "swimlane diagram" reveals...

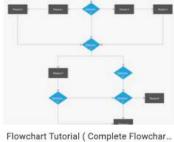


... lots of diagrams I might draw differently. ips ...



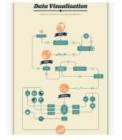
Follow flowchart best practices without ... cacoo.com





creately.com

101 - 011 1- 011 1



21 Creative Flowchart visme.co

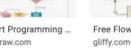


Flowchart Programming





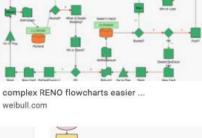






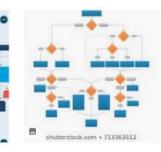
Free Flowchart Templates ...

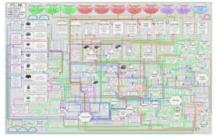
Dota 2 Flow Chart ... reddit.com





Flowchart Tutorial (with Symbols, ... visual-paradigm.com



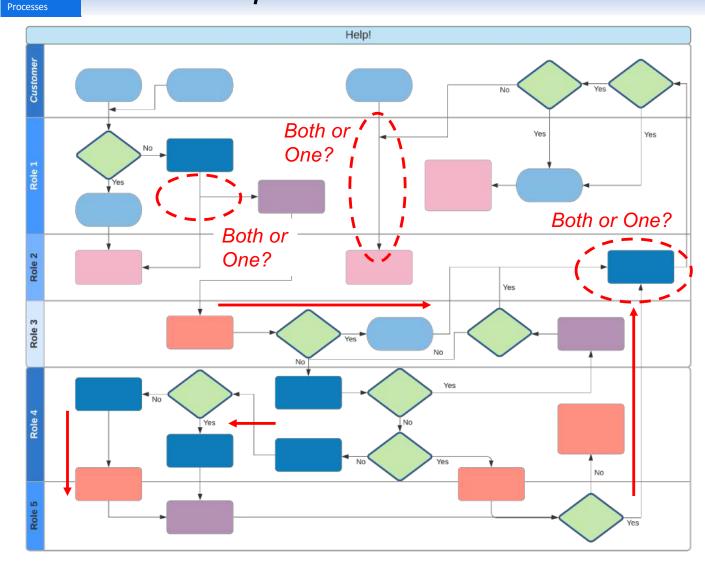




One example ... "Chaos With Colours"

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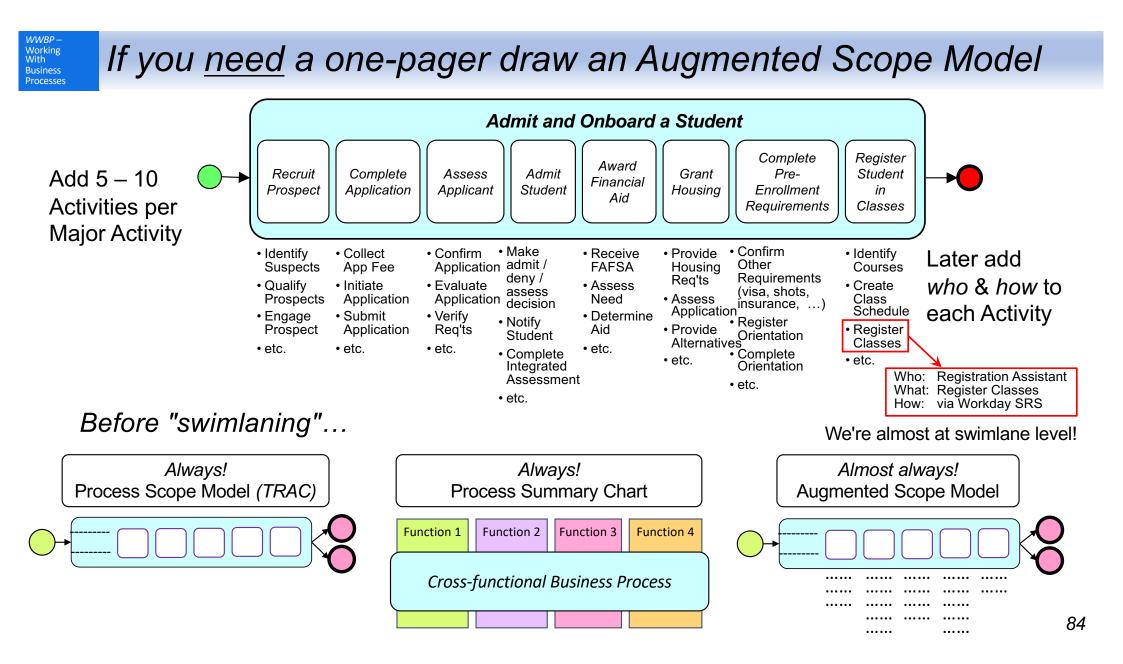
Business



Probably accurate,

not too many symbols, but...

- do unexplained colours help?
- significance of multiple flows?
 - two separate flows inbound to a step
 - two joined flows ٠ inbound to a step
 - one outbound flow splitting
- but most of all...
 - flows in all directions!:
 - left to right
 - right to left
 - top down
- Forcing it into a "one-pager" defeats the graphic power of the diagram.



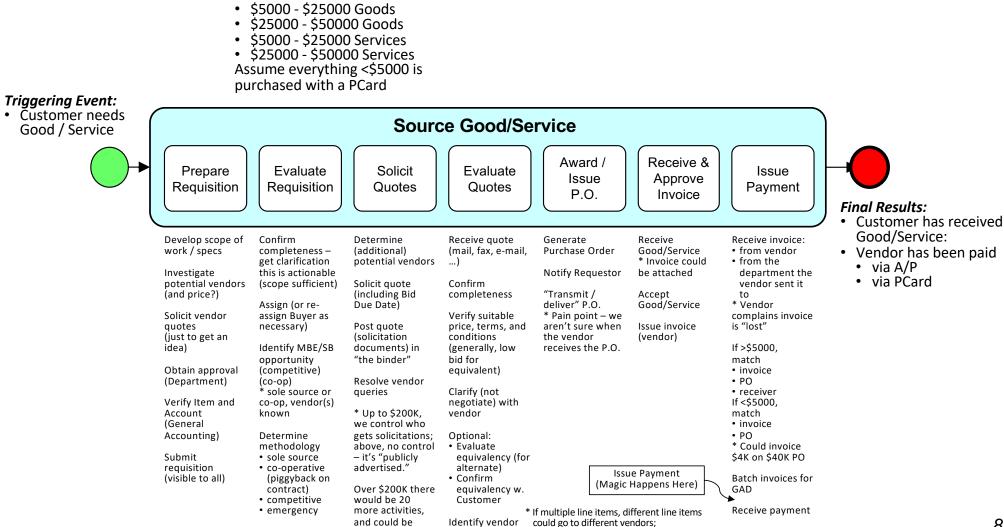
Another fast Augmented Scope Model example

multiple award.

Cases:

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Working With Business Processes



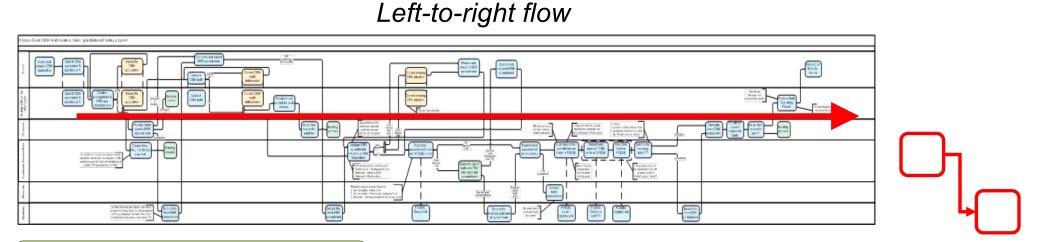
* If multiple vendors, line items are not split.

Core principles – "Flow first, detail later" and "Simplicity!"

The purpose of a *Workflow* Model is to show the *Flow* of *Work*

Whatever you call them, they are a *great* tool for showing flow – sequence and dependency of steps

- Swimlane Diagram
- Workflow Model
- Process Map
- Cross-Functional Flowchart
- People-Process Chart
- Functional Deployment Diagram
- Process Responsibility Diagram
- LOVEM Diagram
- ...



Simple... but not simplistic

Symbols were just boxes and lines

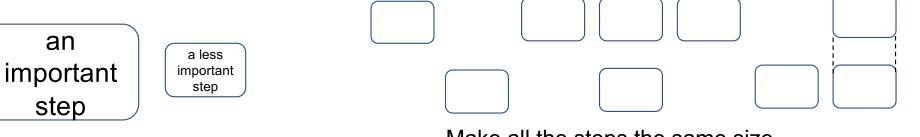
The Cognitive Psychology of diagramming

What do people first perceive on a diagram?

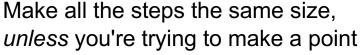
1. relative size

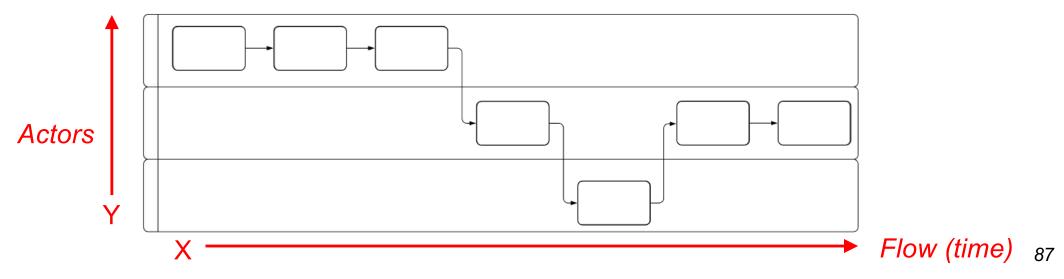
WWBP – Working With

Business Proces<u>ses</u>

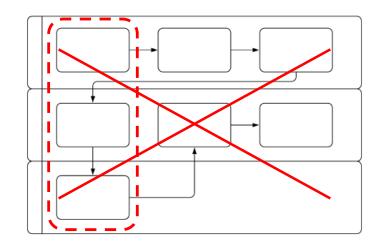


2. relative X-Y position





Don't conceal sequence and dependency



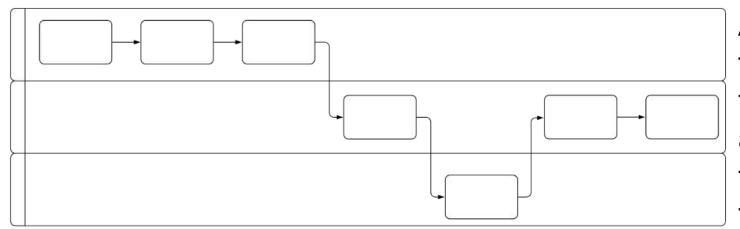
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Business Processes

> Steps perceived as happening in *parallel*, even though flow lines indicate sequential.

Critical in analysing a process:

- sequential vs. parallel
- dependent vs. independent



A simple guideline: flow lines only leave the right edge and only enter the left edge – never the top or bottom. 88

"I think I know why our business partners don't want to review this..."

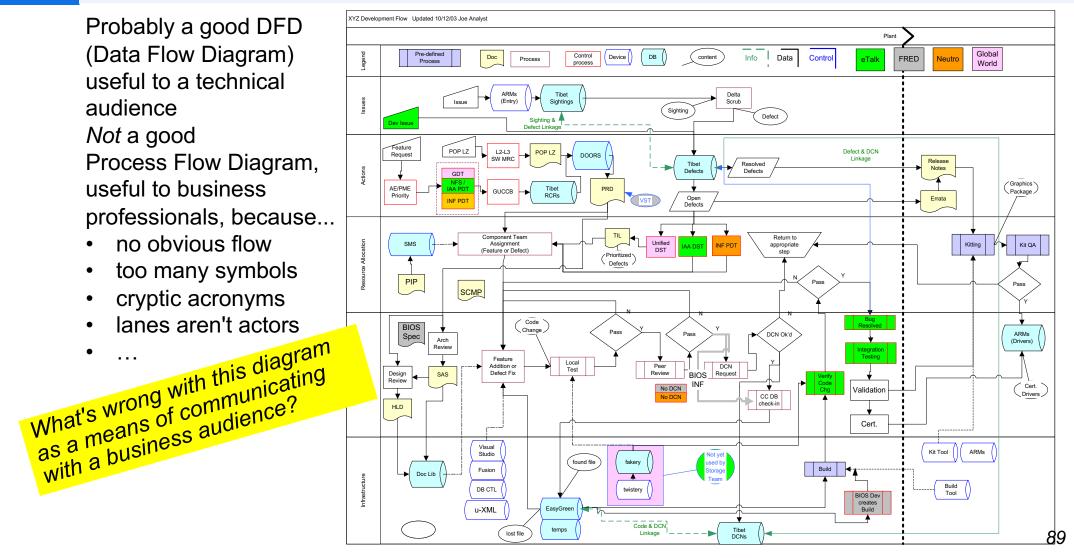
Probably a good DFD (Data Flow Diagram) useful to a technical audience Not a good Process Flow Diagram, useful to business professionals, because...

no obvious flow

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Business Processes

- too many symbols
- cryptic acronyms
- lanes aren't actors

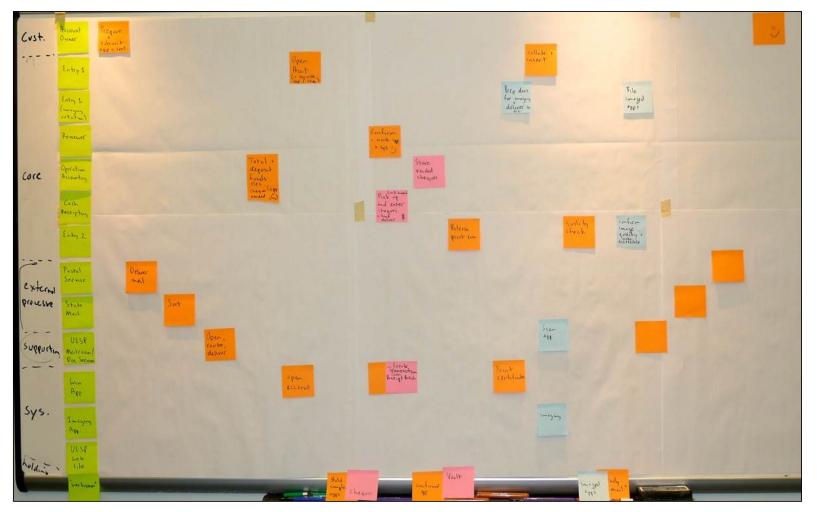


Boxes alone are a great start

WWBP – Working With Business

Processes

Remember – you can build an initial flow model with Post-its, real or virtual

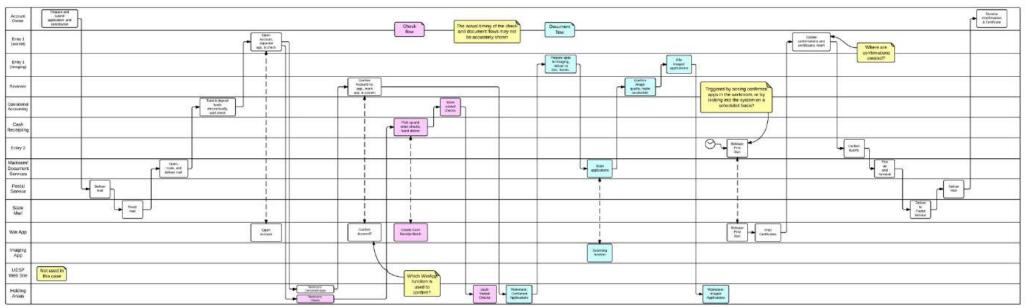


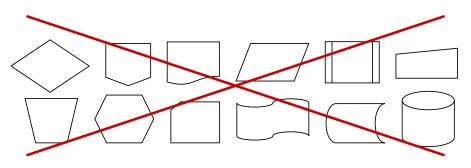
Minimal symbols

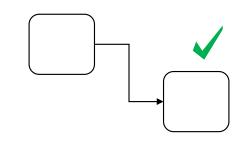
WWBP – Working With Business

Processes

Later, redrew it with *Lucidchart* (www.lucidchart.com) – add rigour, but still focus on flow and simplicity.







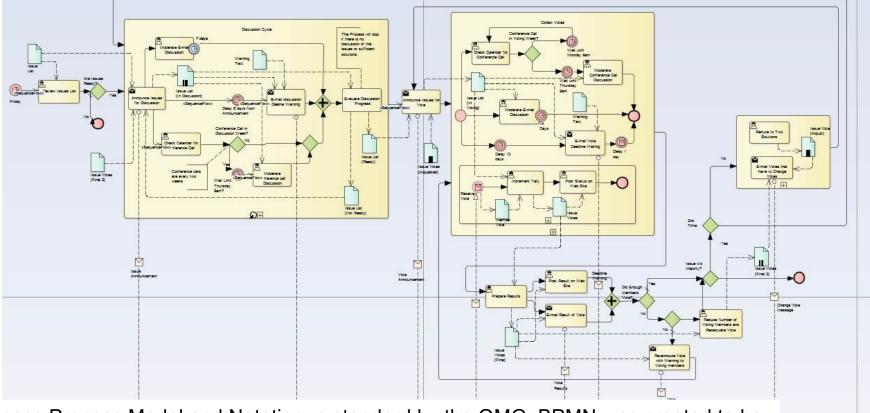
91

Full BPMN* – not useful for business purposes

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Business Processes

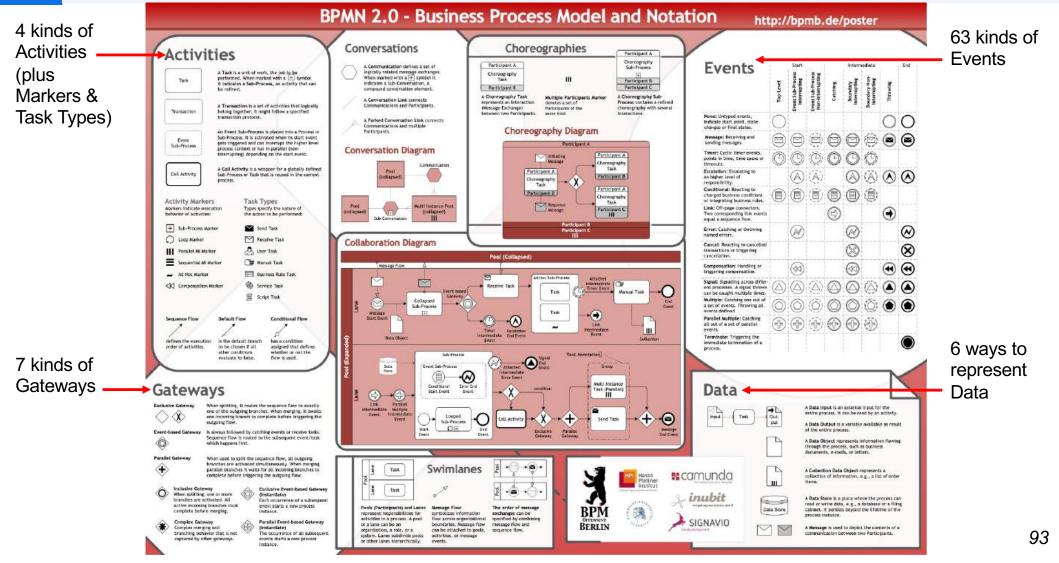
If you choose to use BPMN, use extreme restraint! Only use a few symbols such as Lanes, Tasks, Flows, simple Events, and optionally Gateways



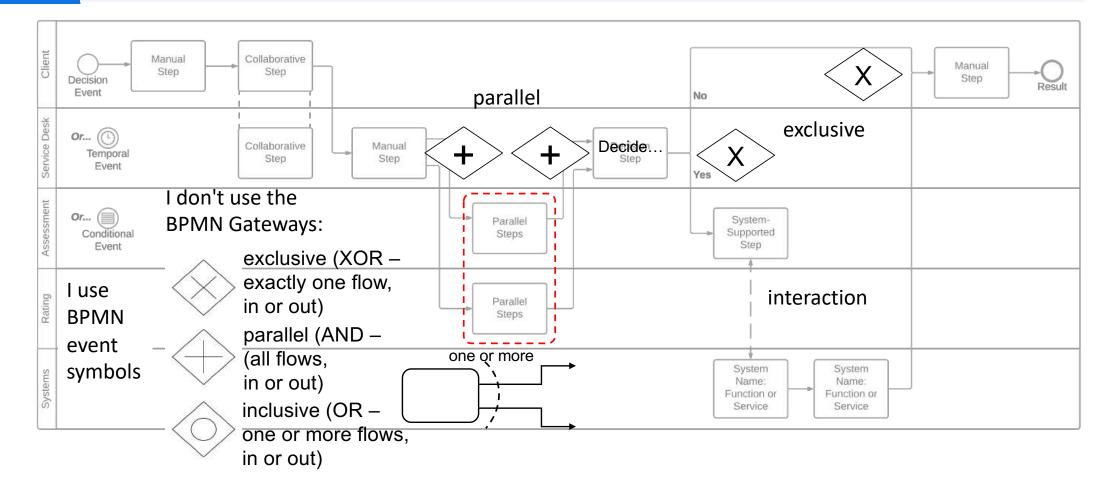
*Business Process Model and Notation, a standard by the OMG. BPMN was created to be a *visual programming language* for automating workflow, not for business modelling.



The full BPMN symbol set (why we use a subset)



Minimal symbols for an approachable workflow model



Striving for precision can undermine the purpose

Aristotle –

"It is the mark of an educated mind to rest satisfied with the degree of precision that the nature of the subject admits, and not to seek exactness where only an approximation is possible."

Business-oriented workflow models will never simultaneously be:

- entirely precise and
- entirely generalised

Remember:

- diagrams convey concepts and structure they tell a story
- other forms are better to convey detail narratives, checklists, procedures, decision tables, use cases, activity diagrams / flowcharts, etc.

Three questions to develop your *initial* workflow model

Emphasis:

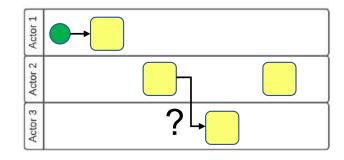
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- keep you out of the details focus on flow
- ensure the involvement of every actor is shown it doesn't matter how much or how little they do, or whether they add value

Three simple questions:

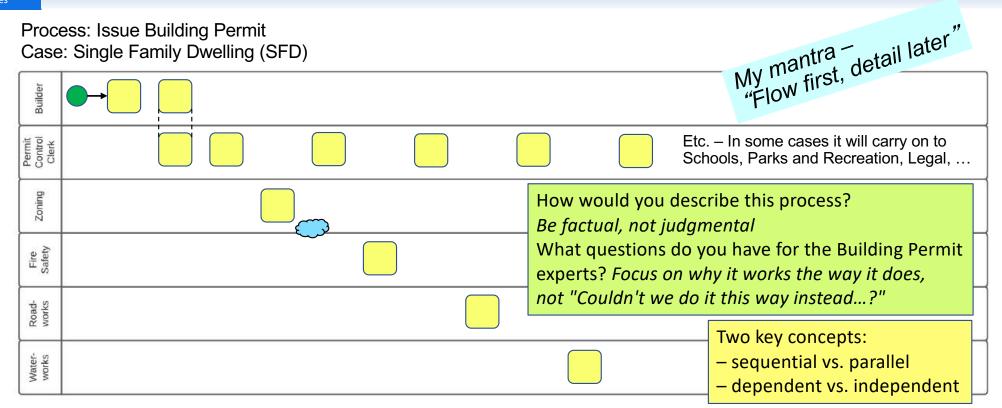
- 1. "Who gets the work next?"
- 2. "How does it get there?"
 Often uncovers "transport" actors or systems
- 3. "Who *really* gets the work next?"
 Often uncovers additional actors



Guideline for the initial Handoff Diagram: Whenever an actor *holds the work*, whether they do a *lot* or a *little*, draw *one* box (or post *one* sticky) and *move on!*

(And no value judgements – include *every* actor that holds the work!)

Question 1 – "Who gets it next?" traces overall flow



In scoping, you identified the trigger, the result, and the main actors. Now, starting at the triggering event, keep asking question 1 -

"Who gets the work next?"

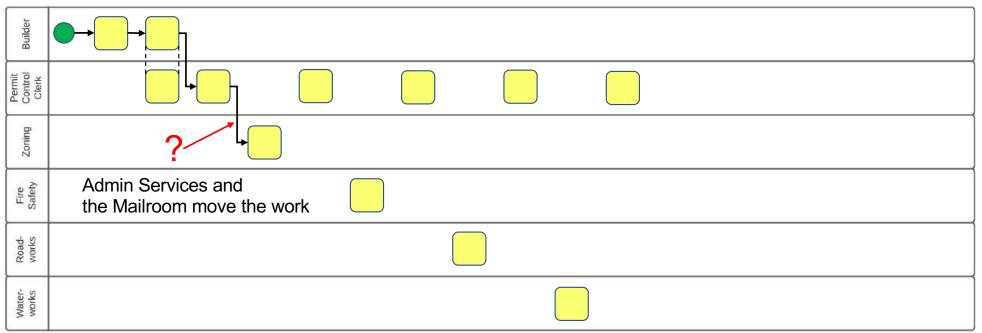
- trace the flow of work through to the Customer's result, following one path only!
- at a decision or parallel flows, follow the main path, mark the other with a cloud, and return later
- DO NOT ask "What do you do?"

Question 2 – "How does it get there?" uncovers more actors

Process: Issue Building Permit Case: Single Family Dwelling (SFD)

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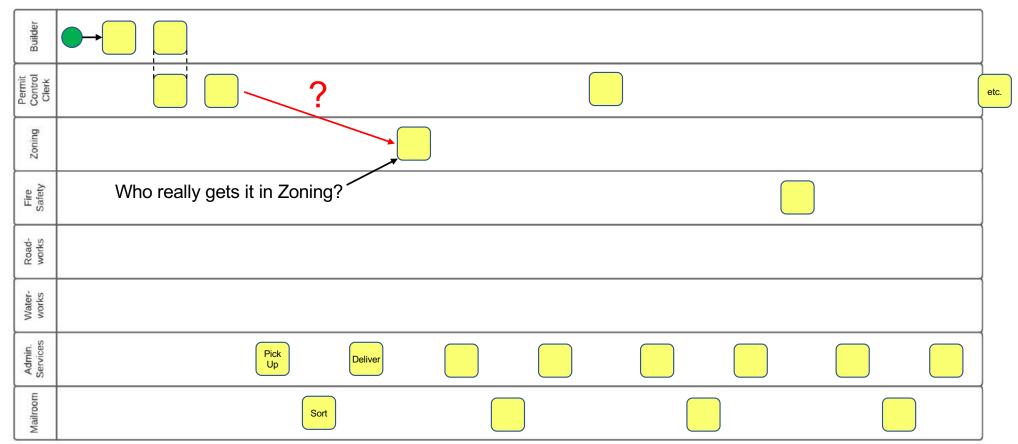


Next, at every handoff, ask question 2 -

"How does it get there?"

- uncovers additional actors, and therefore more handoffs
- a handoff is a potential source of delay, error, or expense

Question 2 revealed more actors and transport mechanisms



Now, inspect handoffs again, looking for missing actors, ask question 3 -

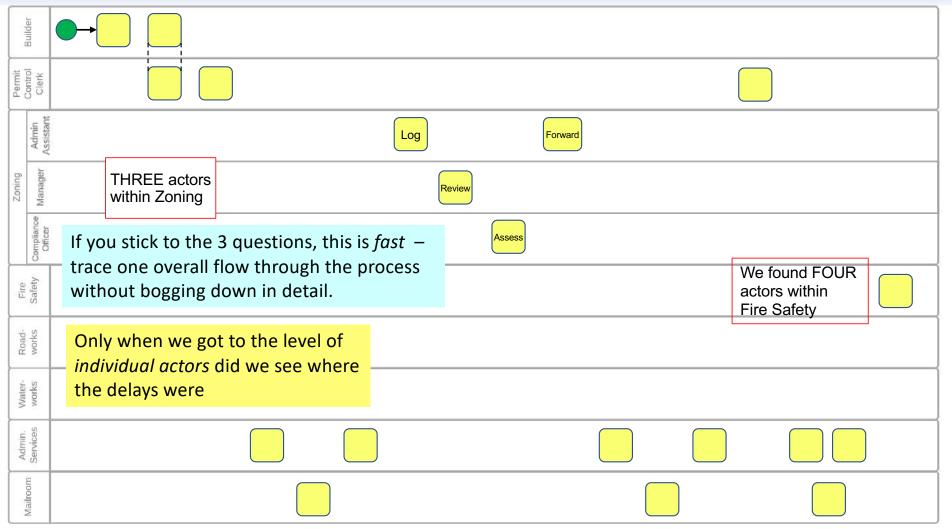
"Who really gets it next?"

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- does it really go directly to the actor you first identified?

Question 3 – "Who really gets it next?" uncovers specific roles



We have <u>started</u> a "Handoff Diagram"

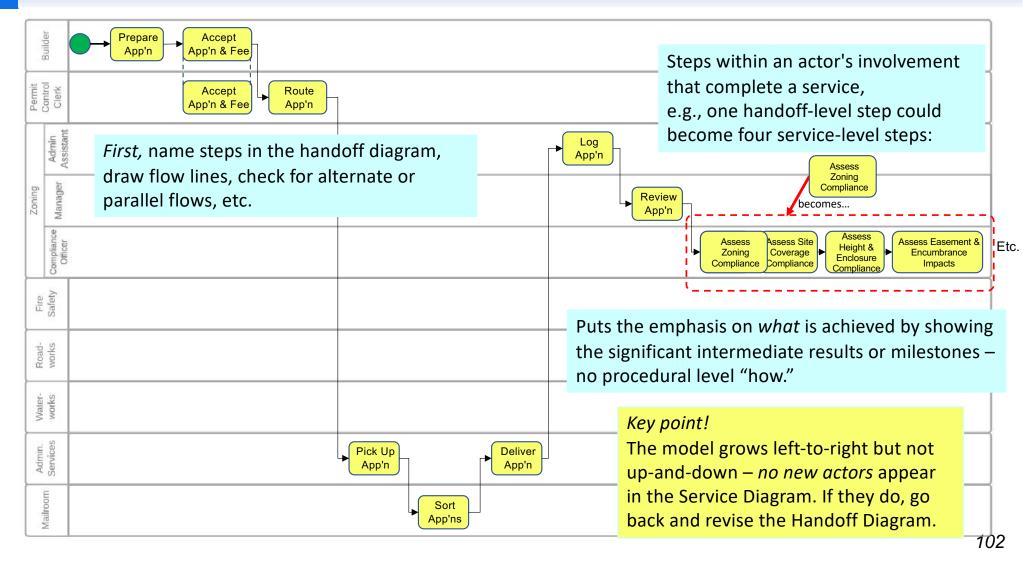
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| Control Builder Clerk | | | | |
|--|-----------------------------------|--|--|--|
| Admin | a little Log | Forward | | |
| Fire Zoning Safety Compliance Manager | draw one box (or post one sticky) | a lot Assess | | |
| Water-Road-F works works Sa | and <i>move on!</i> | Emphasises <i>who</i> is involved <i>when</i> . Shows handoffs and pattern of involvements – the overall flow, not the individual tasks. | | |
| Admin. W | | | | |
| Mailroom | | 10 | | |

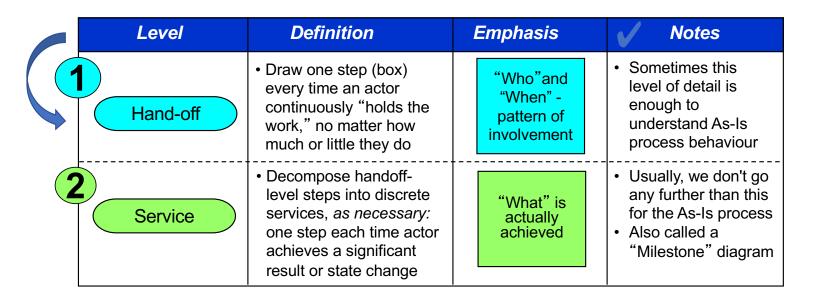
Now develop a "Service Diagram"

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Two levels of swimlane diagrams



The handoff-level diagram is <u>critical</u> – ensures we discover the overall flow before diving into detail.

The Handoff level workflow

Purpose:

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Helps you get through the entire process

Makes the overall structure visible

Supports understandable presentations

Key points:

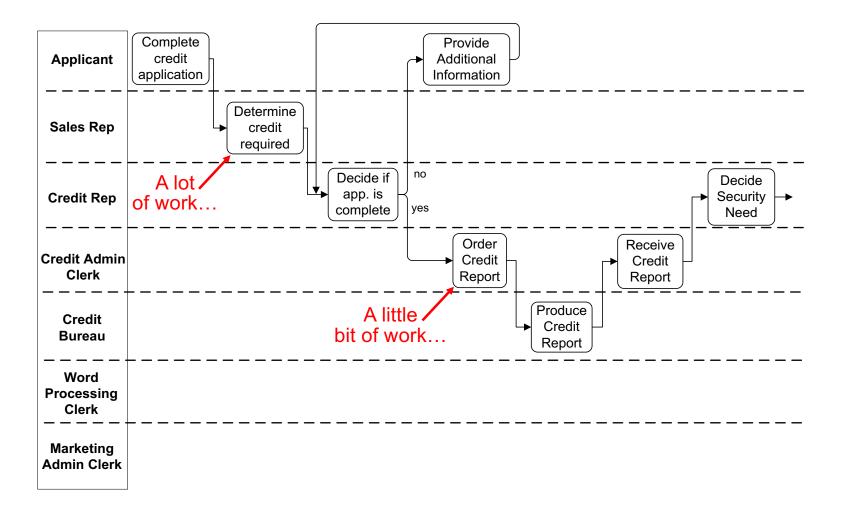
- One step ("involvement") each time there is continuous or uninterrupted work by an actor, regardless of time, effort ("a lot or a little",) or complexity
- Puts the emphasis on *who* is involved *when* by showing the handoffs and pattern of involvements –

"the overall flow, not the individual tasks"

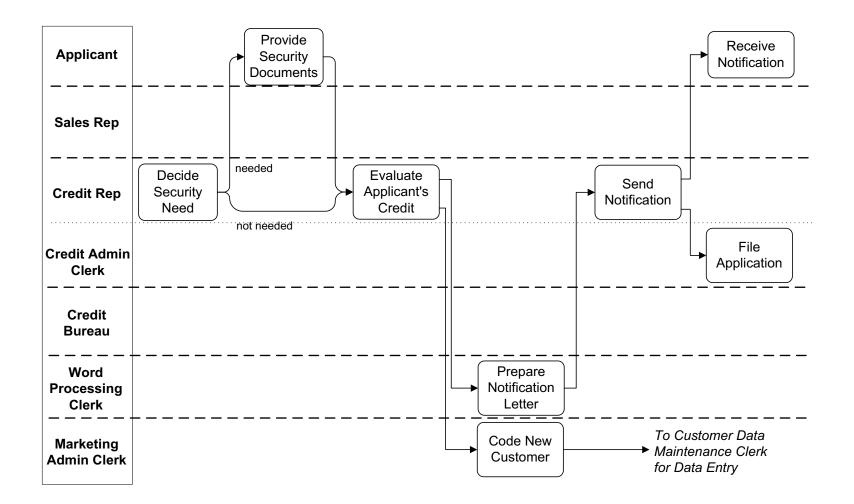
• Prevents getting bogged down in detail

"As Is" - Handoff (page 1)

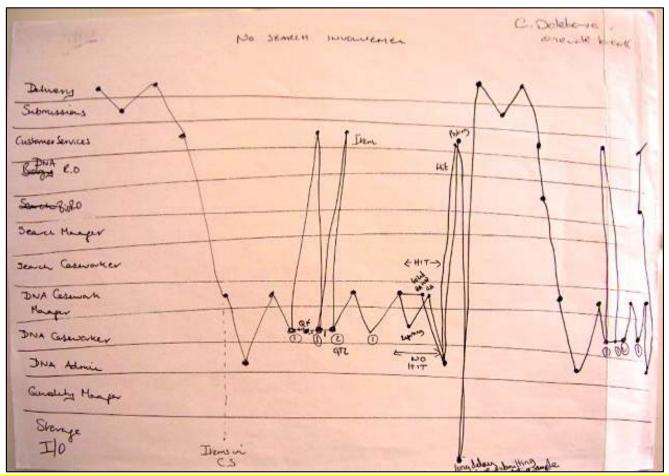
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"As Is" - Handoff (page 2)



What stands out on this minimalist Handoff Diagram?

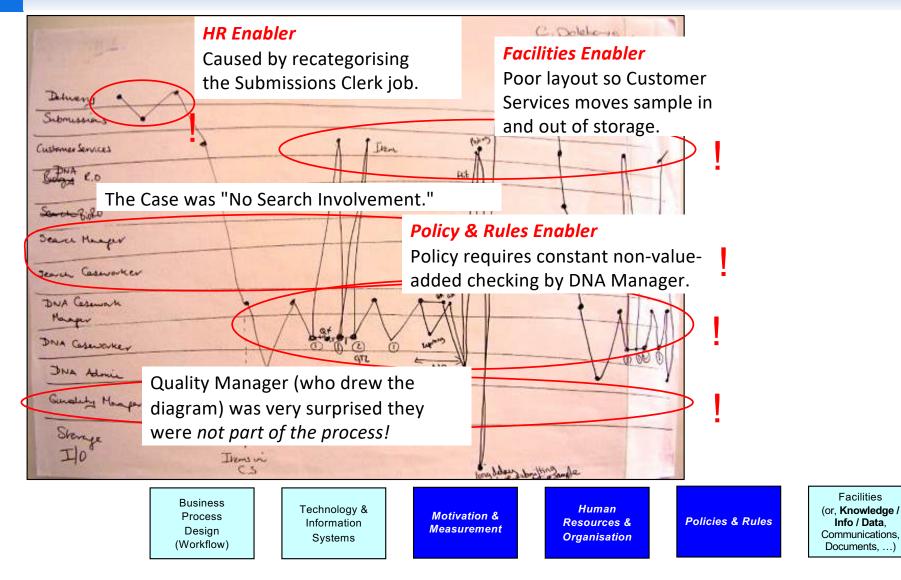


"Order and simplification are the first steps to mastery of a subject." Thomas Mann

We learned a LOT in a short period of time

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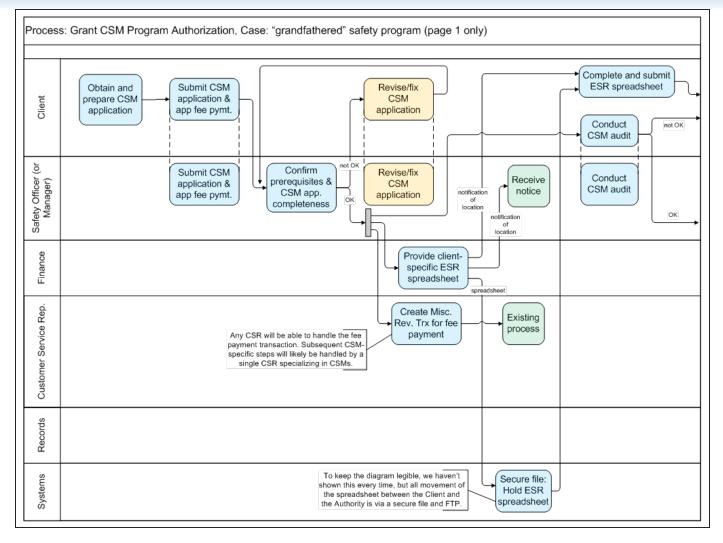
Business Pro<u>cesses</u>



Even handoff level diagrams can get a little more complex

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WWBP-Working With Business Processes The Service level workflow

- Purpose -

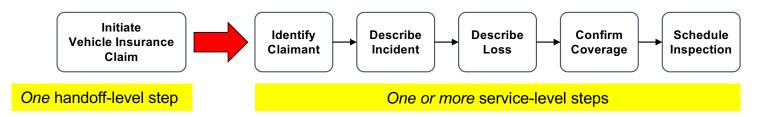
Understand the actual contribution of each actor to the process

Ensure feasibility and effectiveness of process (can each actor actually perform their steps?)

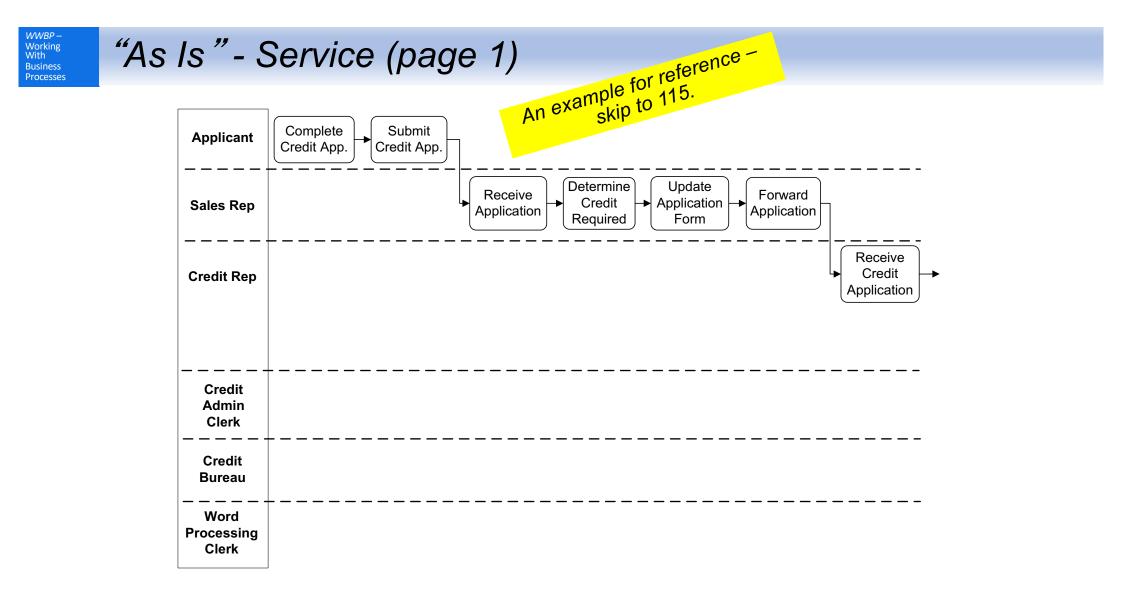
Show relationship to systems - steps involving automated support correspond strongly to use cases and services

Key points:

• Steps within an actor's involvement that complete a service E.g., *one* handoff-level step could become *five* service-level steps:

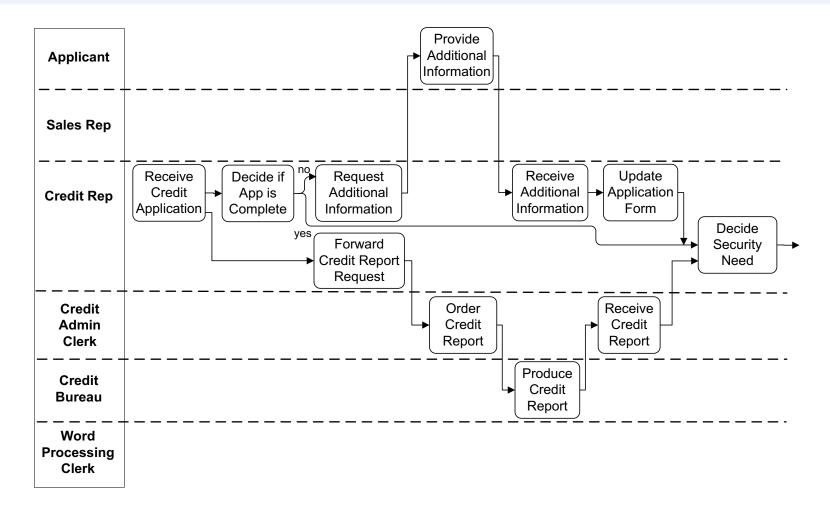


 Puts the emphasis on *what* is achieved during the process by showing the significant intermediate results or milestones – "the achievements, not the individual tasks"



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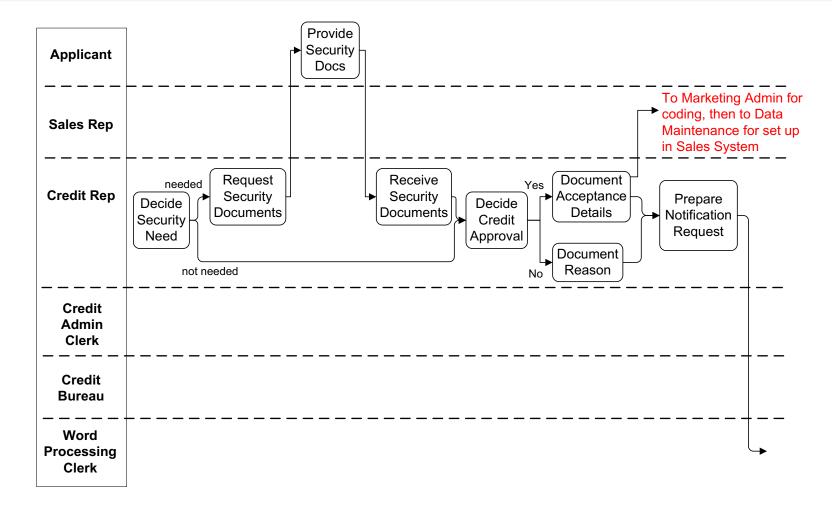
"As Is" - Service (page 2)



"As Is" - Service (page 3)

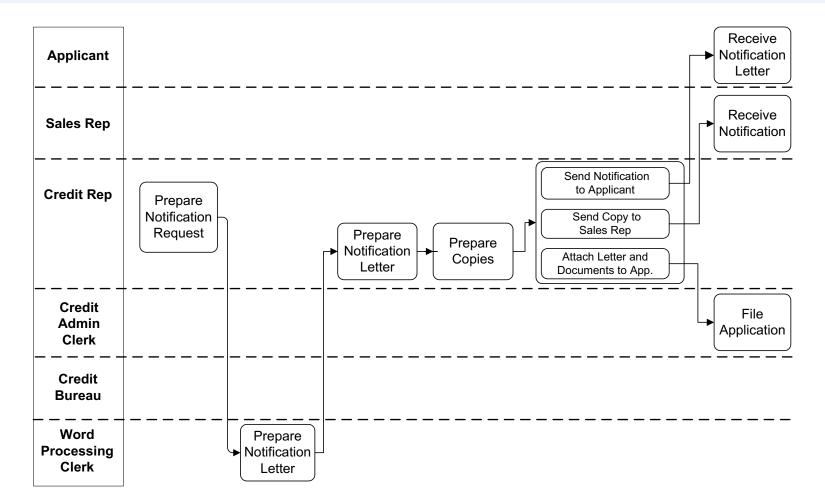
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Processes



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"As Is" - Service (page 4)

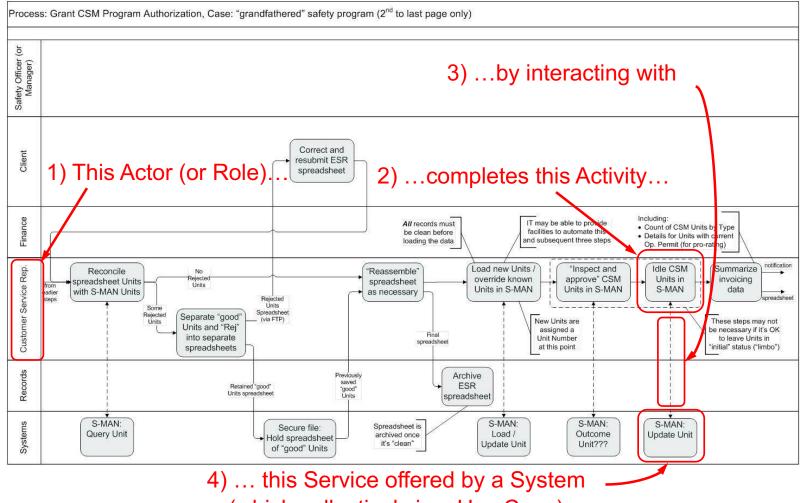


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The Service level ties in Use Cases and Services

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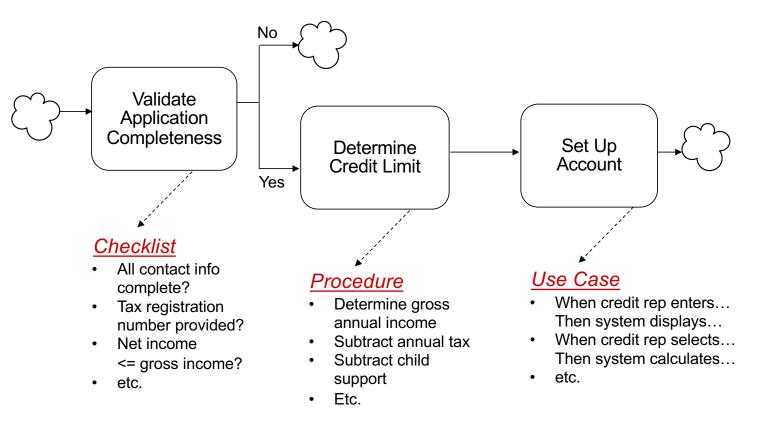
(which collectively is a Use Case)

Stop diagramming before you get into "how"

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> Stop workflow modelling when work isn't flowing. Do *not* use a workflow model to describe *how* an activity is done – that belongs in the activity description or in a linked document.



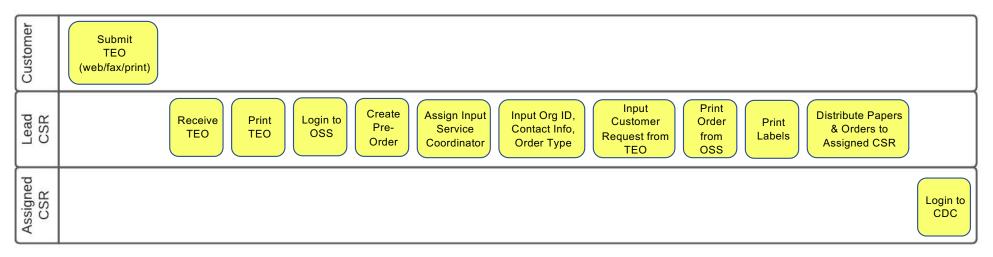
Knowing when you've gone too far

Do **not** use a workflow model to describe **how** an activity is done – that belongs in the activity description or in a linked document.

Handle TEO (Telecom Equipment Order)

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You've gone too far if:

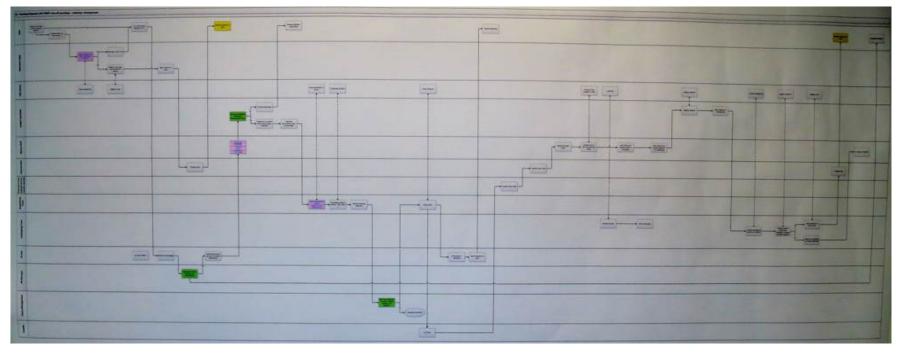
- there are multiple steps in sequence by the same actor
- the steps include "how-to" instructions (procedural level detail)

Getting <u>out</u> of the weeds if you've gone too far

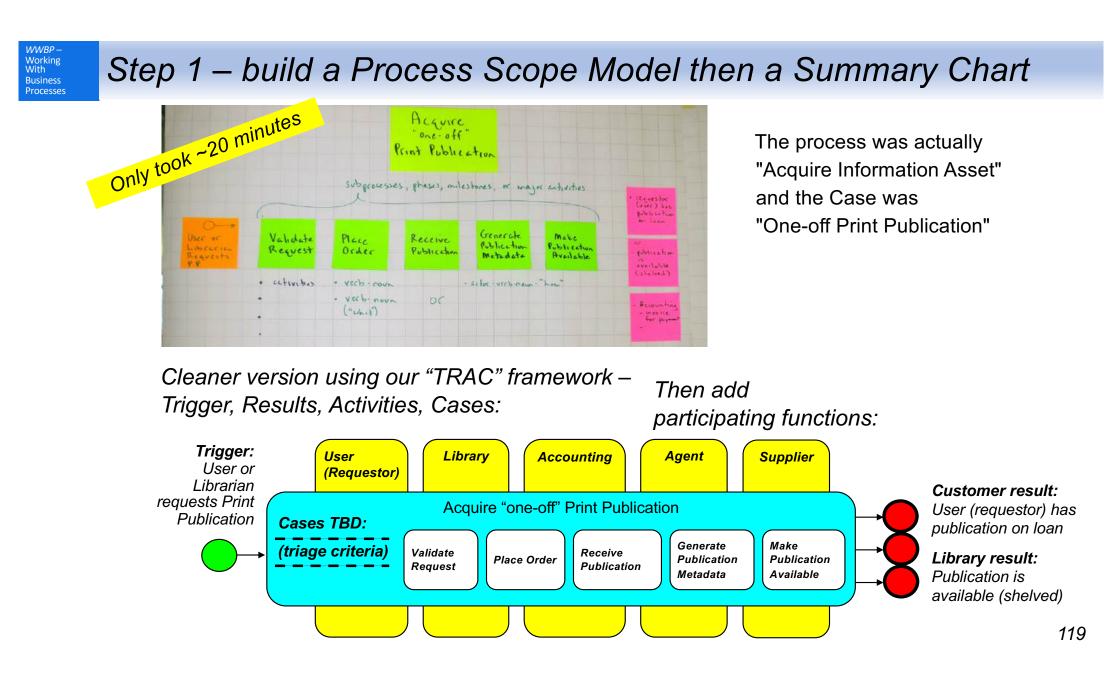
Client struggling with process redesign, mired in detail One of 17 flow models for variations of the same process

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Excellent models, but detail without context is the enemy! Step One – Establish context with a Process Scope Model



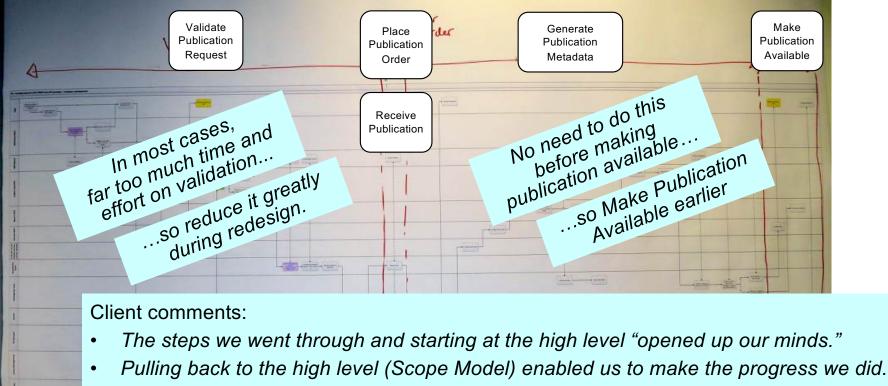
Process Scope Model puts the detail into context

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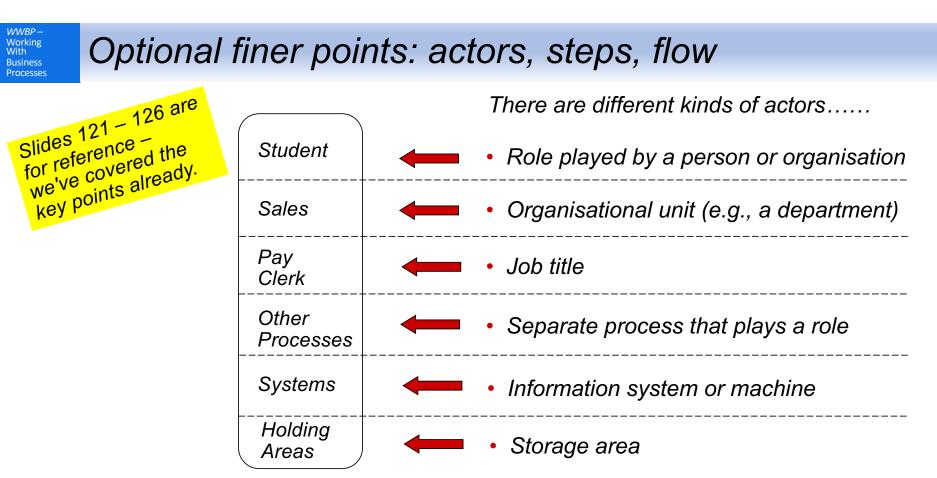
Business Processes

One of the clients had a great idea – overlay the phases from the *Process Scope Model* on the *Workflow Model*.

90+ % of the process is activities the customer dislikes or doesn't care about!



• Without high level, it's easy to get into the weeds.



- All the work performed by an actor appears in their swimlane
- Usual sequence of swimlanes: *customer, core actors, supporting actors,* then three more lanes **Other Processes, Systems, Holding Areas**
- Alternate sequence: any order that helps to "tell a story"

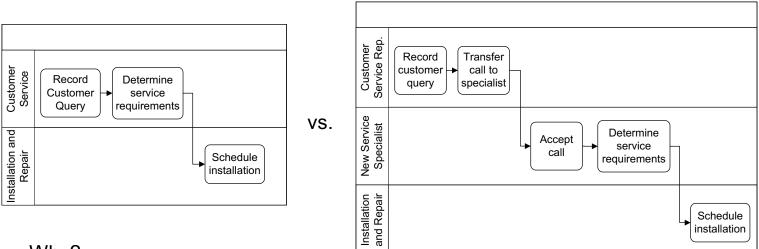
Which actors to include?

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"Should I show handoffs within a department?"

"Yes. Show *all* distinct roles, and the *handoffs* between them, even when they're within the same department."



Why?

- You might convey the idea that the process is "cleaner" than it is
- Eventually, you'll need to know every actor impacted by change
- And most of all... every handoff is a potential source of *delay, error, expense, risk, or frustration*

Showing systems and processes as actors

Show systems that have a role in the process in a "Systems" swimlane.

When a system is involved, add a step that shows the name of the system and the service (function) being used.

Caution! – don't turn the process model into a data flow diagram

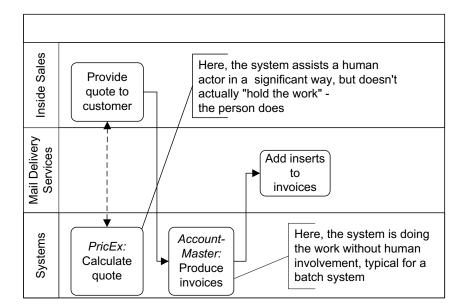
Show other processes that a process interacts with in an "Other Processes" swimlane.

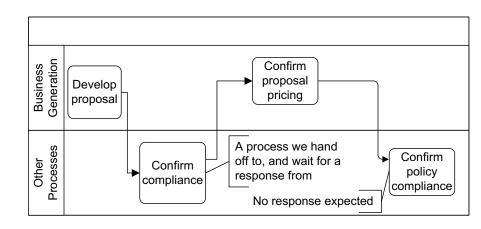
Two cases:

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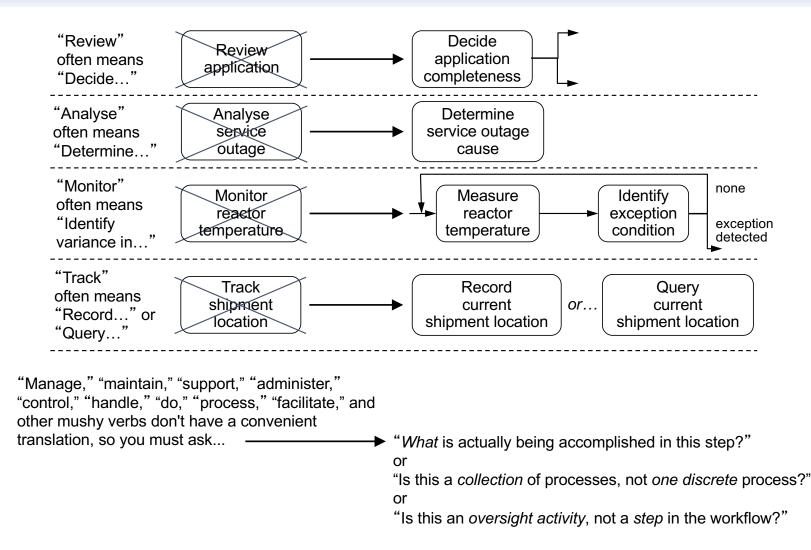
the other process performs
work that your process waits for
your process does not wait for
a response (a one-way handoff)





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Translating mushy verbs

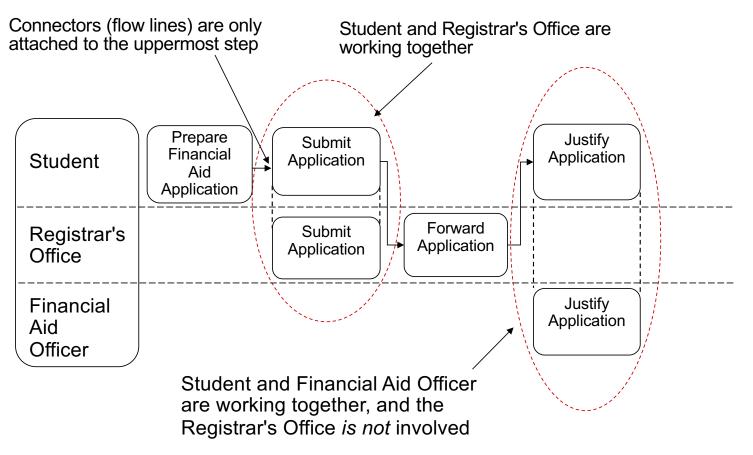


Steps can involve multiple actors

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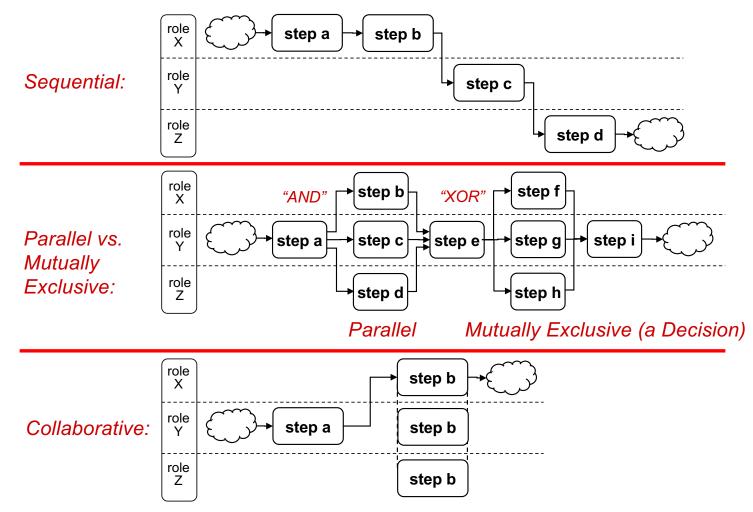
Actors can be involved in the same meeting and/or shared task...



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A common source of errors...

...failing to accurately and consistently show multiple actors and steps





Summary – where we've been, where we're going

Principles

The purpose of a *Workflow* Model is to show the *Flow* of *Work*

Simplicity is a virtue

Always do a Scope Model and a Summary Chart before flow modelling Why they work

Flow (sequence & dependency) is clearly visible, left to right

Simple to read – the symbols are mostly boxes and lines

Shows all actors and their steps, and therefore all interactions and handoffs

Shows the entire, end-to-end process, from trigger to results

Shows "what" the steps are without diving into "how"

The most *common* errors

Concealing flow by drawing a convoluted diagram, usually in an attempt to make it a "one-pager"

Using a lot of symbols that regular folks don't understand

Omitting actors just because they play a minor part – everyone has an impact

Cutting the diagram into onepage segments – the initial flow model should be continuous

Using a Workflow Model to document procedural level detail

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Phase 2 summary – Model and <u>understand</u> the as-is process

| - 1 - Identify, scope, and assess the target process Ph | ase 2 – Model and | "as-is" prod | - 2 - Understand the "as-is" process nderstand the as-is process, and impact of all end | | | |
|--|--|--|---|--|--|--|
| Organise and initiate a modelling session | Augment Process Scope Model with more detailed steps | Optional: Develop handoff-level as-is Swimlane Diagram | Validate completeness using "the five questions " for each step | Model other cases of the same process | Develop service-level Swimlane Diagram, if necessary | |
| Workers, managers, external stakeholders Review Process Landscape, Process Scope Model, and Process | Identify ~5 – 7 essential steps per main Activity Determine "who and how" for each key step Add supporting activities (e.g., | From trigger, trace one flow to result – "flow first, detail later" Three questions: 1 - "Who next?" 2 - "How?" 3 - "Who really?" | "How does it get there?" system? external process? "Good name?" "All inbound flows shown?" "All actors / | Use initial diagram (case) as starting point. If unwieldy, it's normal to create a separate diagram | <i>level</i> diagrams (one per case) • Document procedures etc. | |
| Summary Chart Review ground rules | transport, review, inform) as necessary | Add details – names, labels, alternate flows | systems shown?" 5) "All outbound flows shown?" | Optional, if you choose to develop as-is <i>Swimlane</i> <i>Diagrams</i> (<i>Workflow Models</i>) | | |

5. Business Process assessment (as-is) and design (to-be)

1. Business Process fundamentals

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- 2. Identify true, end-to-end, cross-functional Business Processes
- 3. Clarify as-is process issues & to-be goals
- 4. Model the as-is process in a relevant way

5. As-is process assessment and tips for to-be design / redesign

Before we do a "formal" as-is assessment...

- 1. Record first impressions, and identify obvious problems and NVA (non-value added) work
- 2. Identify *leverage points* A point in a process that has a *disproportionate impact* on overall performance.
 - Often early in the process
 - Most "bang for the buck" *fix first!*

Leverage point examples:

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- Sales reps dislike returning to the office to submit orders, so, they submit in bulk at the last minute, causing a surge in workload
- Forensics lab accepts all items submitted, in the mistaken belief they are *legally obligated* to accept all of it, even though much of it is *redundant* or *useless*



...then apply structured, enabler-based techniques

Two critical techniques address common problems:

- 1. Problem: focusing excessively on workflow and IT. Solution: conduct a final assessment that holistically addresses all **enablers** and generates potential improvements
- Problem: implementing process "improvements" that have unforeseen consequences (negative and/or expensive) Solution: assess significant improvement by specifically considering each of the six enablers

Result: a set of to-be process characteristics ("features") that:

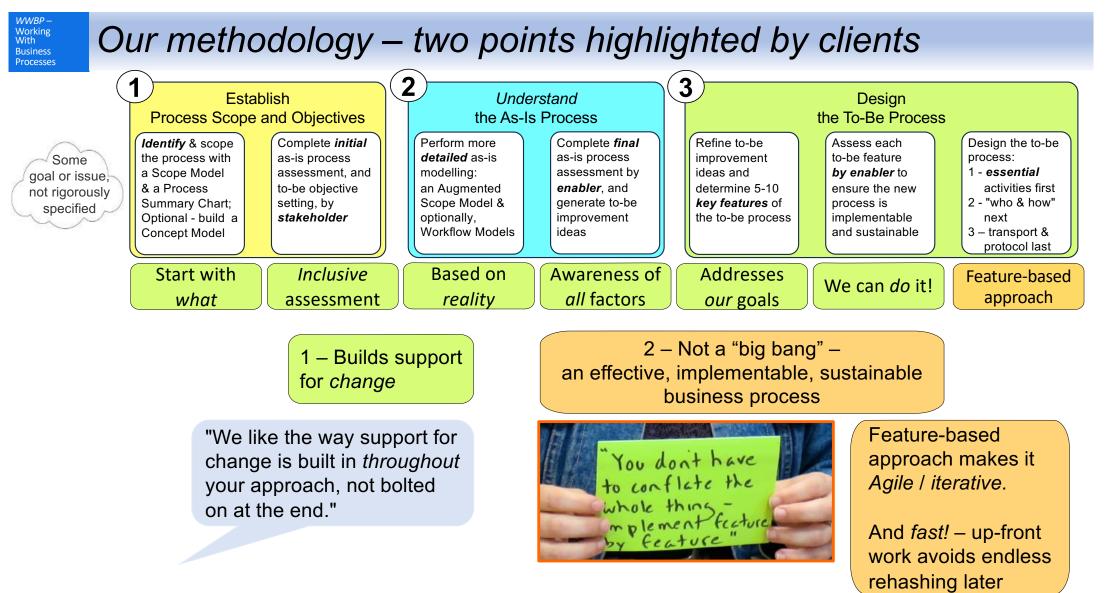
impact specific issues

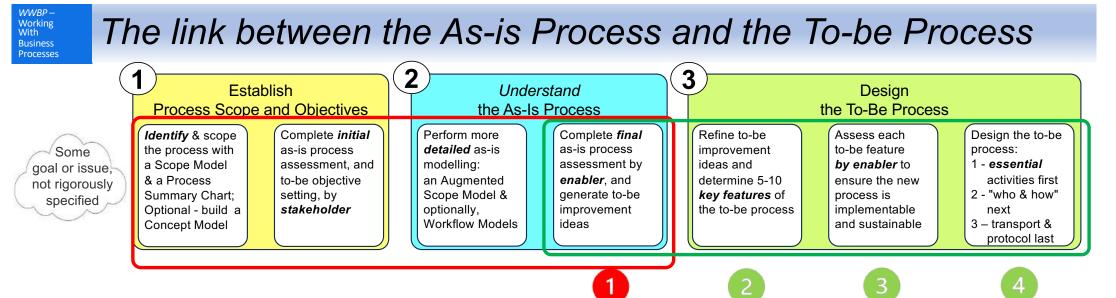
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- are consistent with one another and the differentiator
- are feasible with respect to culture, resources, ...

Key point – don't jump into workflow design too soon!!!

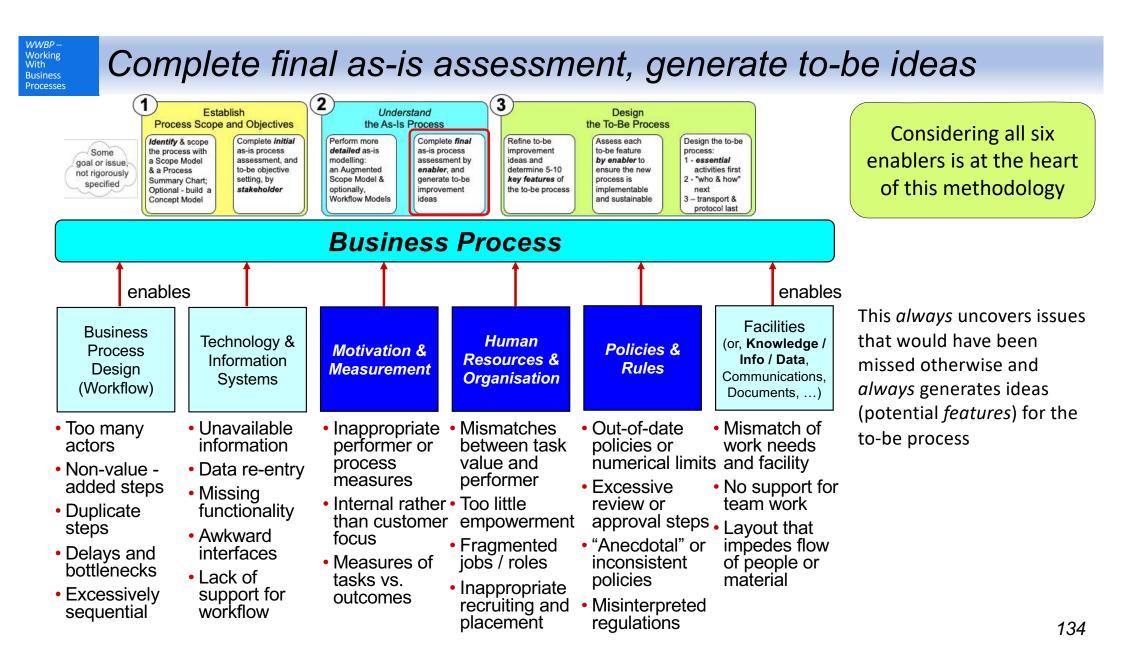


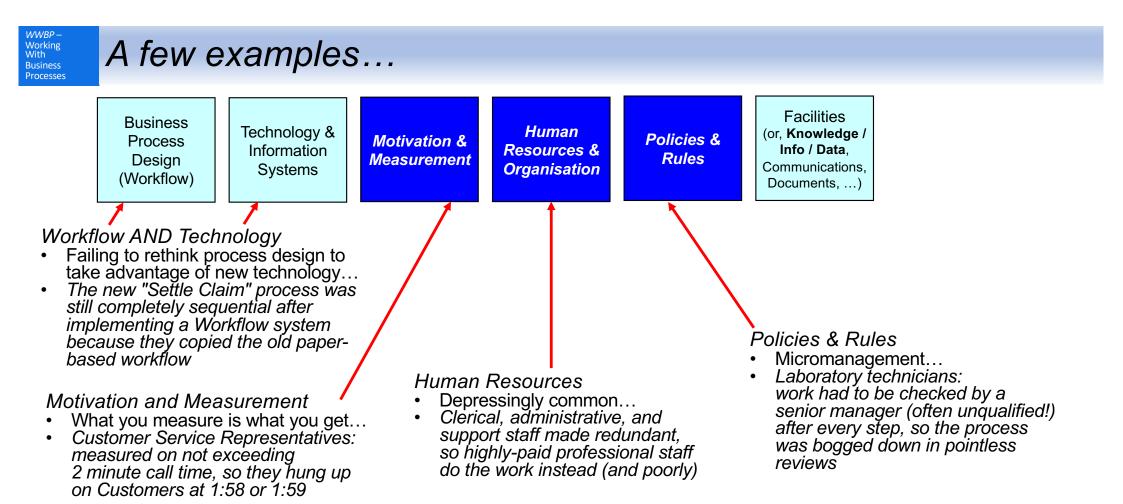


This activity (1) marks the pivot from as-is to to-be:

- we capture what we learned while studying the as-is
- we use this to generate ideas for the *to-be*
- three more activities (2 3 4) lead us to a new design Key point!

Much of what we learn comes from discussions along the way, not from studying the swimlane diagram.





Assessment by Enabler generates ideas for the To-Be

Workflow:

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- Resource not available to Requestor until after *all* classification and tagging is complete, even though classification and tagging is unnecessary in many/most cases because the US Library of Congress and British Library do it and make it freely available to other libraries.

To-Be idea – make Resource available immediately, then do classification and tagging only if necessary, first checking if other libraries have done it

IT:

- Three separate core systems lead to manual copying of data from system to system, often through "shadow systems."

To-Be idea — automated data replication

- Functional richness of core systems leads to overcomplexity To-Be idea – identify the subset of features are really needed, and only use those

Assessment by Enabler generates ideas for the To-Be

Motivation & Measurement:

- Because work is so granular, no one is motivated by the performance of the whole, which is not even measured.

To-Be idea – develop relevant end-to-end metrics, and develop role and workgroup metrics to assess our impact on professional staff

Human Resources:

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> - Acquisition tasks don't require a skilled, higher cost Records Manager – Agency staff could do much more, RMs could do higher value work. *To-Be idea* – *Assign authority for higher-value work to Agency staff*

Policies & Rules:

Three (3!) approvals required for low-value ($\in 20 - \in 50$) cases To-Be idea – revise policy to reduce approvals, eliminate them entirely for low-value cases

Closing thought on the value of a framework,

Human Resonals

Give people a framework, go through it point-by-point, and they will *quickly* identify factors that would have been *missed*.

Policies + Rules

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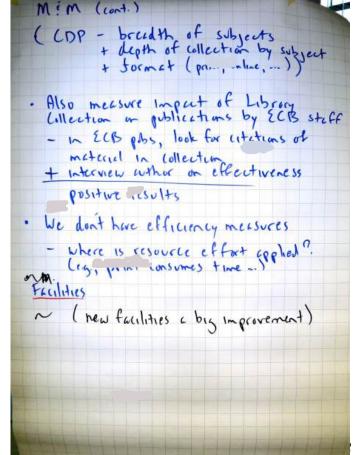
Business Processes

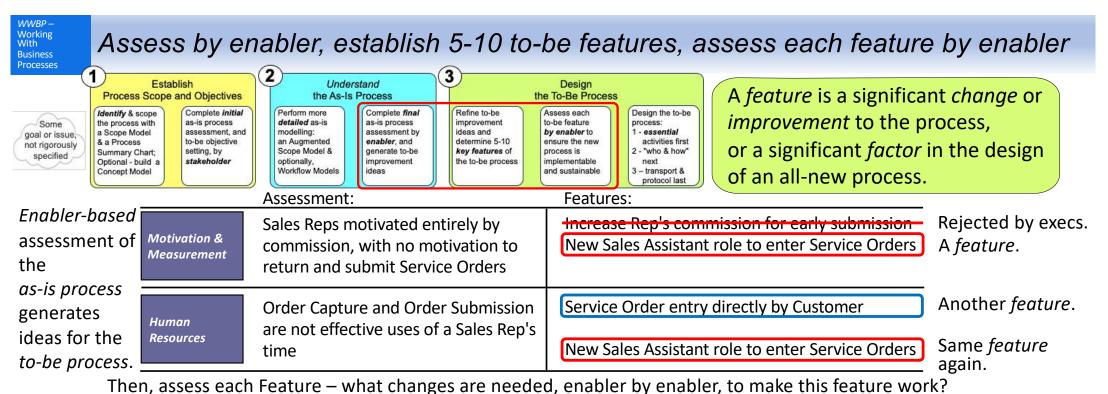
- · "Poly" seems to require epprovels (3) for low-velve cases (mezo 3, - 650)
 - or are covered by Collection Development Policy
 - · BA Monayer
 - . Subject Specialist
- #"Four eye" approval is required by Elaterpol EU law, but perhaps can be simplified (e.g. use ISIS)

Unlike many libraries, we don't have a
 Cetalugving pullicy that defines where we put share skilled resources + time.
 Charles skilled resources + time.
 Conternal system show pot eccess app (Alme)
 The prevents show only not eccess app (Alme)
 Centernal system show not eccess app (Alme)
 Separate Systems - Alma , SAP, Dacing
 Ceders in Alma + SAP
 Torrection Alma + SAP
 Conters in Dacing, manually to - Alme)
 Functional sickness of Alma may lead to overstander to single read to apprece to a cent really need to precedent of the over conglexity lusing features we don't celly med to apprecedent.

Complex per system (Alma) requires certain skills, and constant skills upgeciding due to continual evolution of system. - Mismatch between task value and performer e.g. Acquisitions steps are administrative, and don't require the shilled librarian. - Some Agency Stiff could be empowered to take on more responsibility. - Large increase (+ 2000) in ELB staff in last year. Motivation & Measurement library staff level undange (* Note- we are benchmarking our " Sclary · Good user Steedback other ED central banks - we capture some feedback in Customer Set. Survey 1. I have feedback · Because the work is so granular, no one seels motivated to by the

- performance of the whole performance of the whole and the feeling professional skills and the being used.
 - . Would like to compare acquisitions Loons -- CDP





| , | | | | | | ., | | |
|---|--|---|--|--|---|---|--|----------------------|
| Feature | Process Design | Info. Systems & Tech. | Motivation & Measurement | Human Resources | Policies & Rules | Facilities (or other) | Feasibility & Notes | Avoids unanticipated |
| Direct Service Order entry by Customers | Need to get the Service Order from the server to the Engineering Supervisor for assignment, and then to Engineer for assessment Customer review? | Obviously, all the Web stuff Integrated Service Order DB Workflow functionality? What format | Commission? What impact on commissions for current sales force? | Displacement of current Sales Reps? What are expectations for freed-up Sales Rep time? Customer training? | Will all Customers have access to this? | Electronic orders may free up space currently used for bins, boards, etc | Highly feasible. What will Customer and Sales Rep reaction be? | consequences! |
| | | for Customer sketches? | | | | | | 139 |

Determine to-be process key features – numerical approach

All the phases so far have generated to-be ideas – 50, 100, or more ideas. *Now what?!*

You could to a formal assessment, idea by idea. I'm not a fan, but some organisations like *the numbers*.



Instead, we rely on the group's:

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- ability and desire to seek consensus
- collective knowledge & experience from working through the first four phases (remember – don't skip any!)

We'll use brainwriting to synthesise 5-7 features from the many ideas

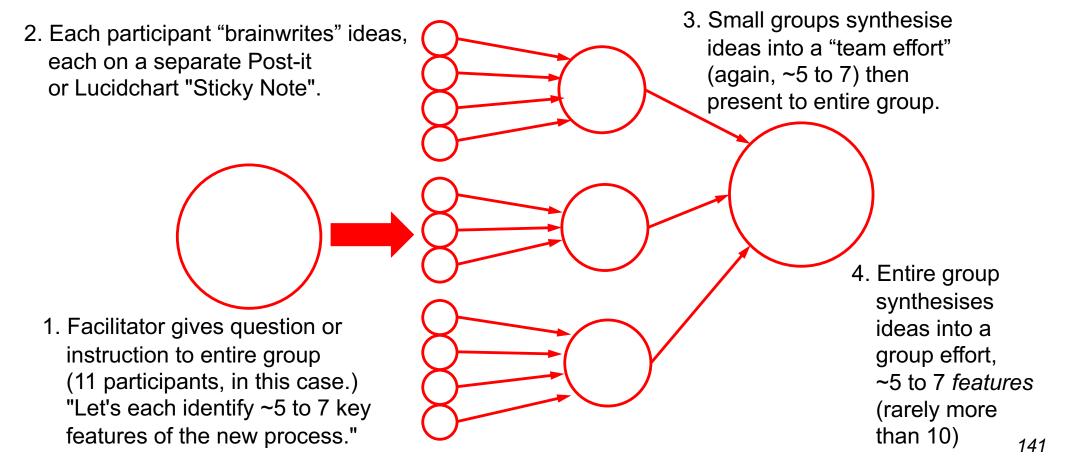
Determine to-be process key features – consensus approach

Use "brainwriting" and "big wheel, little wheel" facilitation

- Proven to generate *more* ideas / more *diverse* ideas
- Easier for everyone to contribute

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Example – determining features of the to-be process

Ten ideas synthesised into one feature...



Six ideas synthesised into one feature...

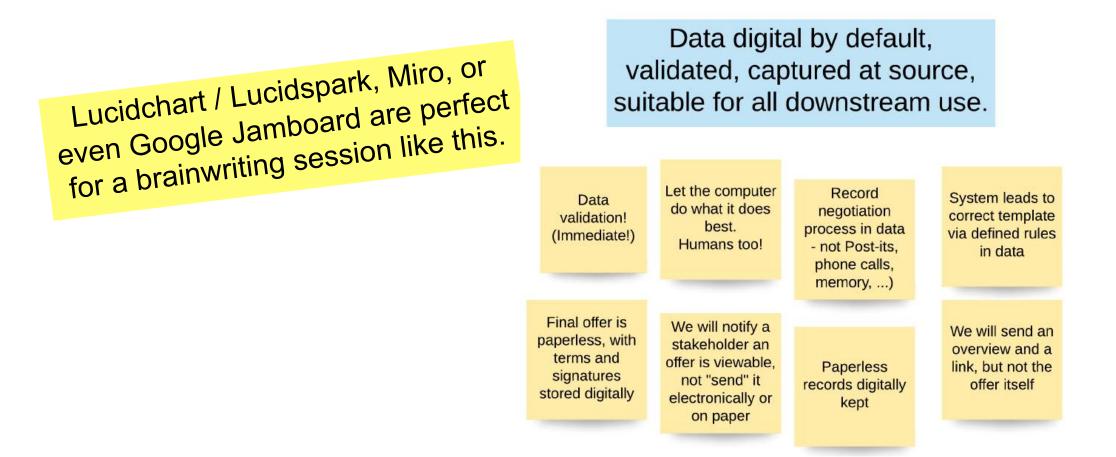
| . Visibility into each instance by anyone with | | | |
|--|---|---|----------------|
| VISIBILITY OF STATUS NECOTIVITION | TRANSPARENCY FOR PHAT PSU EE INFO (CORPENT) VI. | subulity into what's happened what's happened | by course with |

Features...

- Data digital by default, validated and captured at source, and suitable for all downstream use.
- Visibility into the current state of each instance of the process (each faculty search) by anyone with a need to know.
- Separate the "need to approve" from the "need to be informed."
- 4. Each search will follow a defined and visible workflow.
- 5. The process will be designed for digital signatures **only no fallback!**



Same example using a virtual whiteboarding tool



A bit more on assessing each to-be feature, enabler by enabler

Intent:

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- Ensure each feature is *implementable* and *sustainable*
- Avoid *unanticipated consequences* through a holistic assessment

For each feature, ask...

"What needs to change in *this specific enabler* to make this *feature* work?" ***Changes in multiple enablers are usually needed for each feature.

| Feature | Process Design | Info. Systems & Tech. | Motivation & Measurement | Human Resources | Policies & Rules | Facilities (or other) | Feasibility & Notes |
|---|---|--|--|---|---|--|---|
| Assign authority for higher-value work to Support Staff rather than having it all done by Senior Records Managers. | Need to decide whether we can auto-route requests to the appropriate staff member, or if all should go to a Senior Records Manager for routing | Current systems are much too complex for most cases, especially the ones that would now go to Support Staff. Need to isolate and only display essential functions | We MUST adjust the performance measures of Support Staff to ensure they are not penalised for taking on additional responsibility | Revise job descriptions for Support Staff as necessary. Provide additional training in Records Management functions and the RM System | Current policies dictate that all categorization and classification work be carried out by Records Managers – this will have to change. Some regulations may be a factor | Some Support Staff will be moved closer to Records Managers, but this is a minor change | Highly feasible if we can resolve Policy issues. Support Staff are very positive about the opportunity, and Records Managers look forward to more time for high- value work. |

This feature required change in *all six* enablers, especially M&M and P&R!

A richer example – first, describe the feature (page 1 of 2)

A surprise benefit – invaluable during training and roll-out.

Feature name (A feature is a particular characteristic or improvement in the to-be process)

Forensic strategy ("applying science at the front end")

Description

A Senior Scientist, typically the Case Manager, will meet with the Submitting Officer and develop a case strategy specifying which avenues of investigation, and which items and tests are most likely to yield the needed results in the least time with the least effort. The goal is to do this for as high a percentage of cases as possible.

This is the first decision point in another characteristic, multiple decision points.

Visually, this is the first stage in a funnel, in which the work being performed on a case is continually reduced as new facts arise.

Issues addressed

There is a tendency for the Customer (the police) to submit all possible items, and request all possible tests, or at least submit more items for more tests than are necessary or justified. This is known as "forensicating" a case and is ironically a primary cause of the delay and expense that the customer is unhappy with.

Currently, Forensics accepts all items and performs all requested tests through to completion. In some cases, the suspect has become the accused and then the defendant, and has been convicted and incarcerated, yet testing continues.

Anticipated outcomes / benefits

For the Customer - deliver a positive result in less time, at less cost.

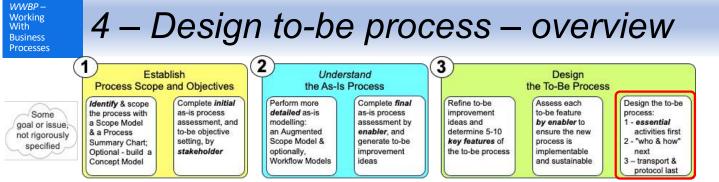
For Forensics – free up resources by reducing submissions, and performing fewer tests on fewer items, thereby providing better throughput for all cases.

In the future, Forensics will only perform those tests that will help, and which will stand up in court because we can say "we chose these tests for these reasons."

On an ongoing basis the customer will become more aware of the avenues that are most effective.

Then identify requirements to implement each feature (page 2 of 2)

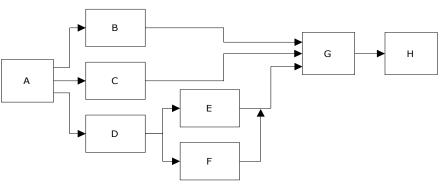
| Enab | blers | Eight features assessed in a single five-ho | Eight features assessed in a single five-hour session! | | |
|---------------------------|------------------------|--|--|--|--|
| Proce | ess Design | Performers ("actors"), tasks, sequence, dependency Senior scientist "meets with" appropriate scientist, not necessarily in person Assessment and agreement and recording of <i>requirement</i> which is not contracted yet. The requirement must be made available to the Process Manager, who will assess it with respect to current capacity. The Case Manager and Process Manager will then negotiate and refine the requirement. They will then agree on "what and when" and commit capacity, which might involve another provider. | | | |
| Technology • Capture requ | | Systems, automated support, data and Information, comm. Capture requirement Real-time view into work-in-progress and committed capacity (Forensics' and subcontractors) | | | |
| | vation and surement | Measurement, assessment, consequences The Process Manager will be measured on accurately estimating capacity and throughput. The Process Manager makes a commitment for Forensics, and will be measured on having done the least to get the necessary result. ("lean consumption") | | | |
| Huma | an Resources | Recruitment, placement, education, roles, matching task to role New front-end role for scientists Process Manager role Provide service 24x7 will impact some staff. Recruitment, recognition, and reward are fundamental to making this work | | | |
| Polici | ies and Rules | Internal: policies & guidelines. External: laws and regulations The overall submissions policy must be revised to reflect forensic strategy vs. "take it all." Investigate legal consequences of forensic strategy. Mechanism to protect the individual scientist from pressure. ("Forensics, not the individual scientist" – this is a corporate decision, not a personal decision) Scientists can't make commitment without the Process Manager. A 10 minute phone call and a 4 hour conference both constitute delivery of a service. A request to confer with a Case Manager constitutes contract initiation. | | | |
| Facili | ities and Equipment | Physical accommodations, layout, equipment, furnishings Some place to meet – in person, teleconference, … | 1- | | |

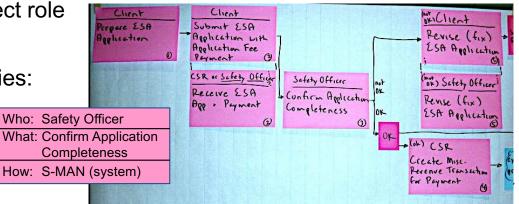


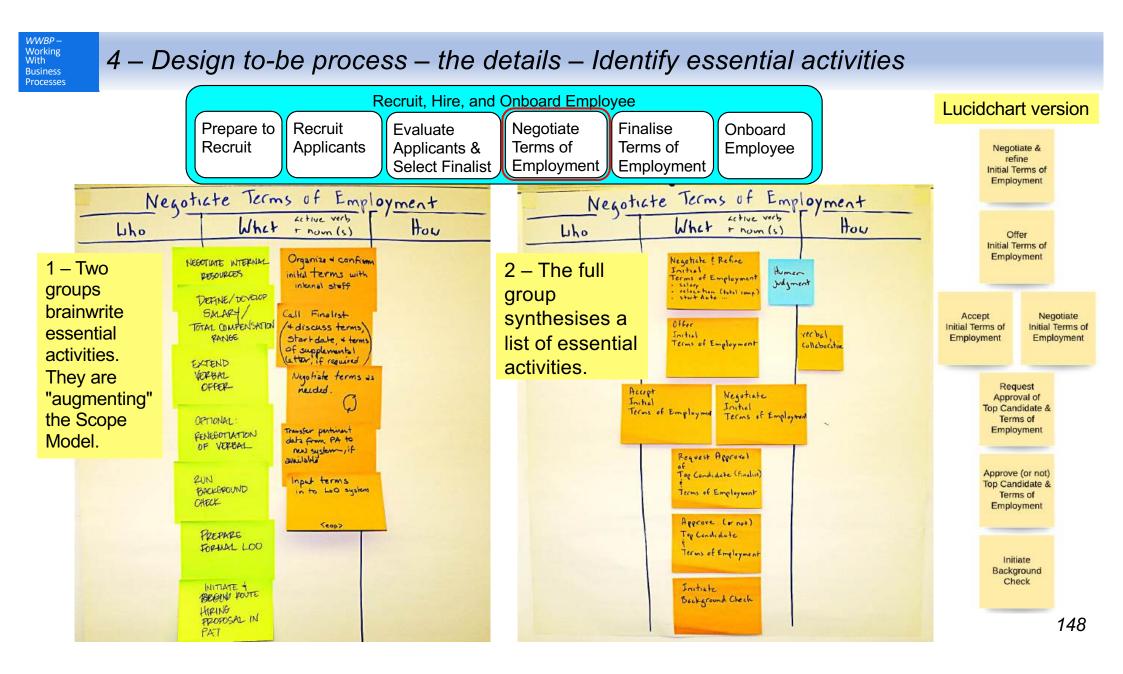
- Use an Augmented Scope Model to determine <u>what</u> the essential activities are
- Next, factor in <u>who</u> will perform each activity, then <u>how</u>
 - a person as a manual activity
 - a person interacting with a system, e.g. a use case
 - a system, e.g., RPA (Robotic Process Automation)
- Link essential activities by dependency a PERT chart
- Adjust e.g., verify activity is assigned to the correct role
- Only then redraw as a swimlane diagram
- Finally, add non-value-added but necessary activities:
 - transport, record keeping, notification, etc.
 - ensure any approval steps are *really* necessary ("Don't confuse notification with approval.")

Key points:

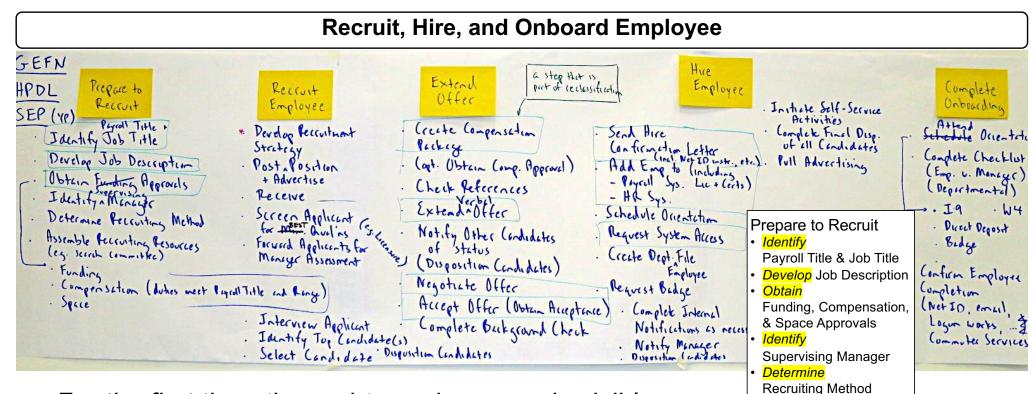
- As with the as-is process –
 "What first, who and how later"
- Design around essential steps, not administrative steps







Similar example – Augmented Scope Model for the full process



- For the first time, the end-to-end process is visible
- A surprise to everyone how much work it is

WWBP – Working With

Business Processes

- Still no reference to "who or how" just "active verb + noun"
- This is critical to build support for change it "depersonalises" in a good way!

Assemble

Recruiting Resources

(e.g., search committee)

For each essential Activity, add "Who," "How," and lots of "Notes"

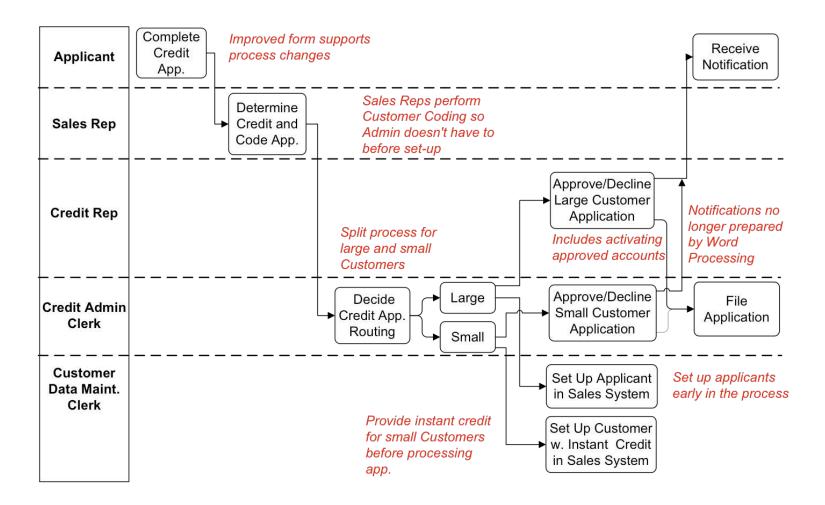


- We have the core of the to-be process design
- Going immediately to a Swimlane Diagram would have been overwhelming!
- But now, developing the to-be flow model (swimlane diagram) is straightforward – We Can Do It! We have:
 - actors or swimlanes Who
 - steps What
 - the mechanism for each step How
 - sequence

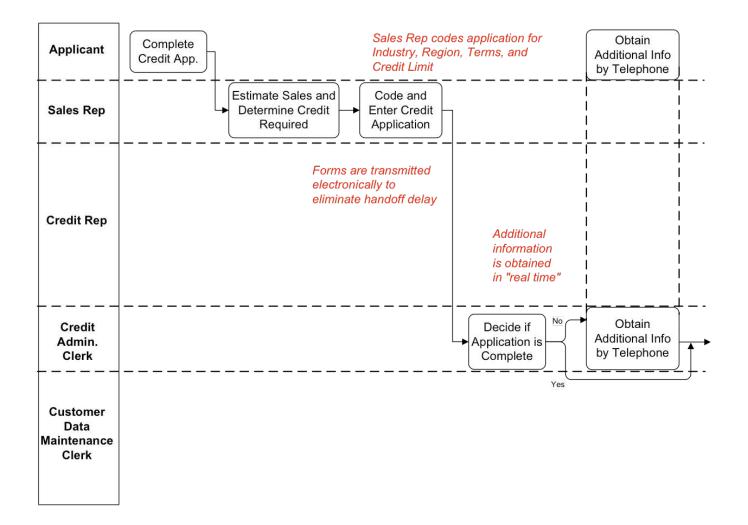
 (approximate, but OK for now)
 150



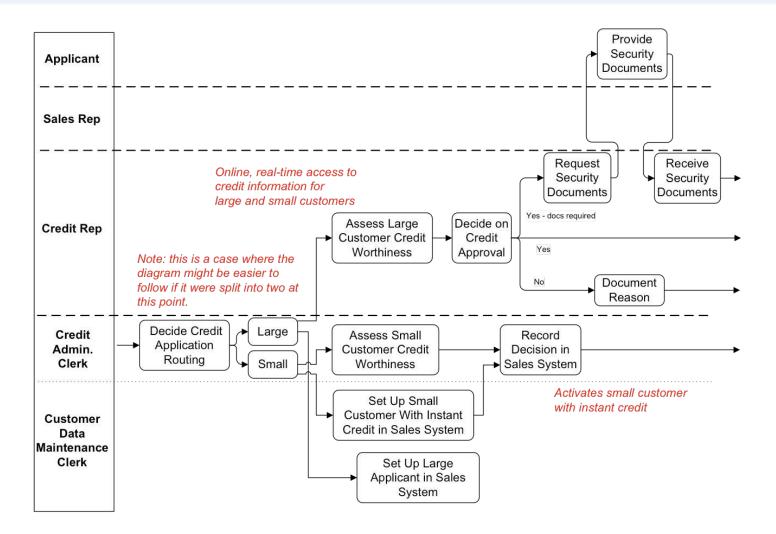
"To-be" flow – Handoff



"To-be" flow – Service (page 1)



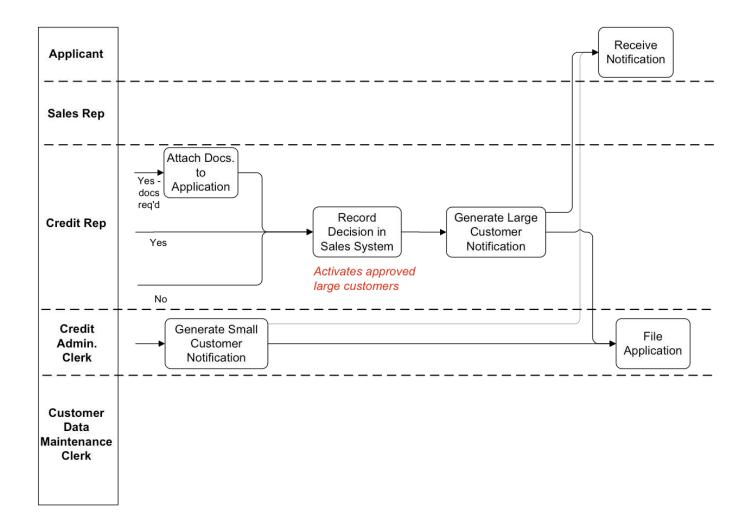
"To-be " – Service (page 2)



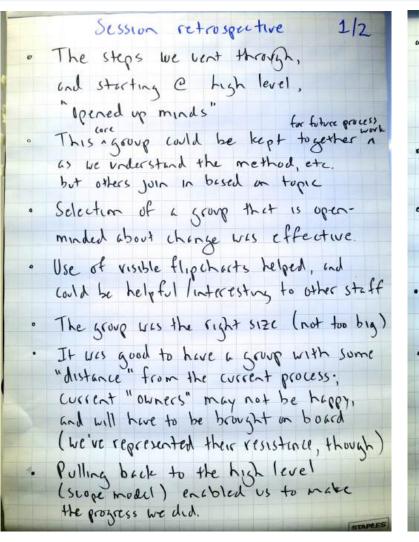
"To-be " – Service (page 3)

WWBP – Working With Business

Processes



Final observations from session retrospective, 12 people



- "Having enabler assessments (as Policy) addressed and visible enabled us to "let it go" and lay out new workflow.
- · Without high level, it's easy to get into the weeds.
- · Specifically addressing the perspective of each stakeholder was a beneficial because it changed our thinking.
- · This process (Print Pub) can be a catalyst for major change
- · Helpful to have a facilitator -
 - "ignorance is golden"

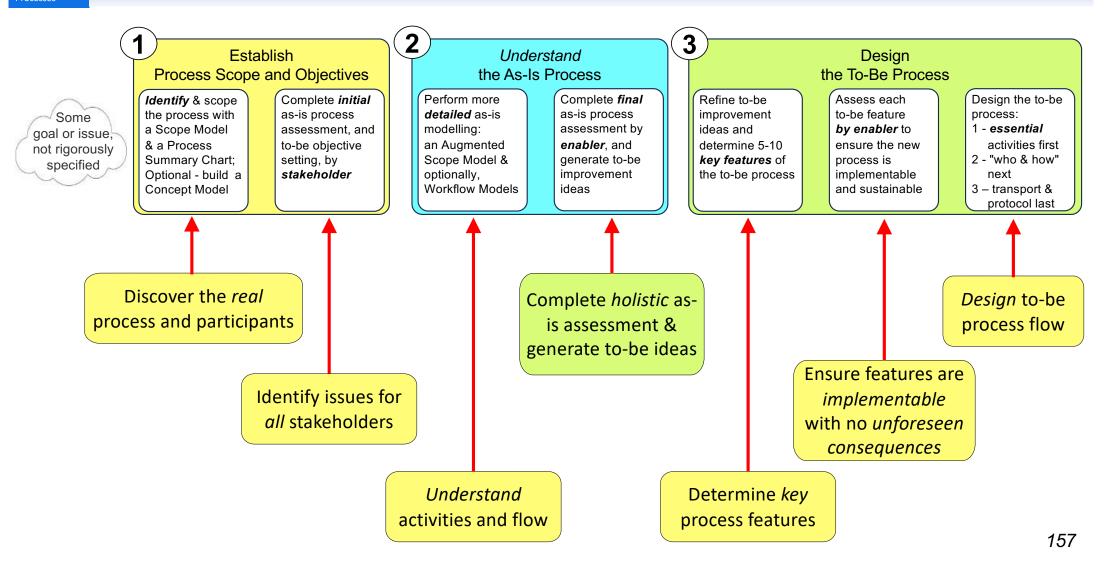
Final thoughts from session retrospective

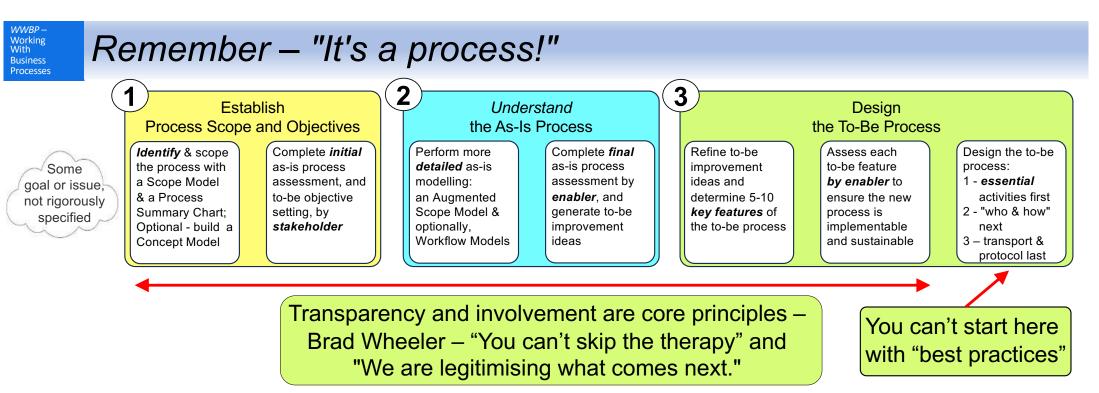
WWBP – Working With Business

Processes

- The steps we went through and starting at the high level "opened up minds."
- Use of visible flipcharts helped, and could be helpful / interesting to other staff.
- Pulling back to the high level (Scope Model) enabled us to make the progress we did.
- Having enabler assessments (e.g., Policy) addressed and visible enabled us to "let it go" and lay out new workflow.
- Without the high level, it's easy to get into the weeds.
- Specifically addressing the perspective of each stakeholder was beneficial because it changed our thinking.
- Helpful to have a facilitator "ignorance is golden."

Every phase contributes to the goal – don't skip any!





Making the new process sustainable:

- Alignment of all enablers, especially Motivation & Measurement, Human Resources & Organisation, and Policies & Rules
- Visibility of the process the *whole* process, right down to *job aids*
- Training in the new process for current and new staff
- Time for each feature of the new process to take hold before more change continuous change should mean regular but not constant change

| WWBP – Working With Business Processes | -1- Identify, scope, and assess the target process Phase 3 – Assess as-is process, develop to-be characteristics, design to | | | | | – 3 – Characterise and design the "to-be" process | |
|--|--|--|--|---|---|---|--|
| | Conduct final assessment of as-is and generate ideas for the to-be | Decide on overall approach | Conduct a challenge session to generate more to-be ideas | Select 5-10 key features for the to-be | Assess each feature by enabler (to avoid unanticipated consequences) | Design to-be process | |
| | Collect first impressions and <i>ideas</i> Identify leverage points and <i>ideas</i> Assess process (and optionally each step) by enabler, and record <i>ideas</i> | Abandon Outsource Leave as-is Improve or redesign Totally new design | Optional State underlying assumption in each step Overstate! and challenge Record alternative <i>ideas</i>, or keep statement | Team and management review Select 5 – 10 key <i>ideas</i> that: meet goals are significant are feasible These are the to- be <i>features</i> | Describe what must be done, one enabler at a time, to make the <i>feature</i> work Result: <i>Characterised To- Be Process</i>, <i>Process</i> <i>Requirements</i> | Identify essential activities (<i>what</i>), then <i>who</i> & <i>how</i> Link activities by dependency and adjust Draw initial Swimlane Diagram Add non-essential activities Annotate! | |

Three phases – summary

Phase 1 Identify, scope, and assess the target process

- Identify related processes
 - · identify and link activities
 - 1:1 links are in same process
 - draw Process Landscape
- Use TRAC to clarify target process' scope
 - Triggering event
 - Result for each stakeholder
 - ~5+/- 2 main Activities
 - Cases (main variations)
 - draw Process Scope Model
- Clarify as-is process elements
 - functional areas
 - · actors and responsibilities
 - · systems and mechanisms
 - draw Process Summary Chart
- Assess as-is process by stakeholder (initial assessment)
 - also specify context and consequences of inaction
- Specify to-be process goals
 - subjective and objective
- Specify performance metrics
 - customer-focused outcomes, not internal task efficiency

Phase 2 Understand the as-is process

- Organise and initiate session
 - staff and management plus external stakeholders
 - review scope, issues, goals
 - review ground rules
- Build Augmented Scope Model
 - Identify main steps by Activity
 - Identify who & how per step
- Build as-is swimlane diagram
 - Optional
 - · one case and path at a time
 - Three questions:
 "Who next?," "How does it get there?,"
 "Who *really* gets it?"
- Check each step 5 questions
 - Verify all flows in and out
 - Confirm active, accurate name
 - Confirm all actors / systems
- Model other process cases
 - create new diagram, or use original case as a starting point
- Add additional levels of detail
 - only if necessary

Phase 3 Characterise and design the to-be process

- Assess as-is process by enabler (final assessment)
 - · using as-is models as a guide
 - · record ideas for to-be
- Decide on approach (abandon, outsource, leave as-is, improve or redesign)
- Conduct challenge session
 - challenge hidden assumptions
 - record ideas for to-be
- *Eliminate infeasible ideas* (cost, legal, resources, impact, ...)
- Select 5 10 key ideas these are the to-be "features"
- Assess each feature by enabler
 - helps us avoid unanticipated consequences
 - builds Process Requirements
- Identify & sequence essential activities
- Lay out to-be workflow
 - handoff then service
 - only then add non-essential step

Other courses for analysts by Alec Sharp

Working With Business Processes – Process Change in Agile Timeframes

Business processes matter, because business processes are how value is delivered. Understanding how to work with business processes is now a core skill for business analysts, process and application architects, functional area managers, and even corporate executives. But too often, material on the topic either floats around in generalities and familiar case studies, or descends rapidly into technical details and incomprehensible models. This workshop is different – in a practical way, it shows how to discover and scope a business process, clarify its context, model its workflow with progressive detail, assess it, and and transition to the design of a new process by determining, verifying, and documenting its essential characteristics. Everything is backed up with real-world examples, and clear, repeatable guidelines.

Business-Oriented Data Modelling – Useful Models in Agile Timeframes

Data modelling was often seen as a technical exercise, but is now known to be essential to other initiatives such as business process change, requirements specification, Agile development, and even big data, analytics, and data lake implementation. Why? – because it ensures a common understanding of the things – the entities or business objects – that processes, applications, and analytics deal with. This workshop introduces concept modelling from a non-technical perspective, provides tips and guidelines for the analyst, and explores entity-relationship modelling at contextual, conceptual, and logical levels using techniques that maximise client involvement.

Working With Business Processes Masterclass – Aligning Process Work with Strategic, Organisational, and Cultural Factors 3 days

This 3-day interactive workshop combines the core content from two highly-rated classes by Alec Sharp – "Working With Business Processes" and "Advanced Business Process Techniques." This structure is popular because it gets both new and experienced practitioners to the same baseline on Claritiq's unique, agile, and ultra-practical approach to Business Process Change. First, it shows how to effectively communicate Business Process concepts, discover and scope a business process, assess it and establish goals, and model it with progressive detail. Then, it shifts to advanced topics – specific, repeatable techniques for developing a process architecture, encouraging support for change, and completing a feature-based process design. The emphasis is always on ensuring business process initiatives are aligned with human, social, cultural, and political factors, and enterprise mission, strategy, goals, and objectives.
Business-Oriented Data Modelling Masterclass – Balancing Engagement, Agility, and Complexity 3 days

Our most popular workshop! This intensive 3-day workshop combines the core content from two popular offerings by Alec Sharp – "Business Oriented Data Modelling" and "Advanced Data Modelling." First, the workshop gets both new and experienced modellers to the same baseline on terminology, conventions, and Clariteq's unique, business-engaging approach. We ensure a common understanding of what a data model *really* is, and maximising its relevance. Then, we provide intense, hands-on practice with more advanced situations, such as the enforcement of complex business rules, handling recurring patterns, satisfying regulatory requirements to model time and history, capturing complex changes and corrections, and integrating with dimensional modelling. Always, the philosophy is that a data model is a description of a business, not of a database, and the emphasis is on engaging the business and improving communication.

Model-Driven Business Analysis Techniques – Proven Techniques for Processes, Applications, and Data

Simple, list-based techniques are fine as a starting point, but only with more rigorous techniques will a complete set of requirements emerge, and those requirements must then be synthesised into a cohesive view of the desired to-be state. This three-day workshop shows how to accomplish that with an integrated, model-driven framework comprising process workflow models, a unique form of use cases, service specifications, and business-friendly data models. This distinctive approach has succeeded on projects of all types because it is "do-able" by analysts, relevant to business subject matter experts, and useful to developers. It distills the material from Clariteq's three, two-day workshops on process, data, and use cases & services.

*** Note: two-day in-person workshops are delivered virtually as three half-day sessions via Zoom. Three-day in-person workshops are delivered virtually as five half-day sessions via Zoom.

2 days

2 davs

3 days



Thank you!



Alec Sharp, West Vancouver, BC, Canada

If you have questions or comments... don't be shy, get in touch!

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- m: +1 604 418-3352



The UnderCurrent Alternative Newspaper– Self-study Exercise



The UnderCurrent alternative newspaper – self-study exercise

Case Study: The UnderCurrent Weekly Newspaper Part 1: Process Discovery Purpose: practice identifying core business processes starting from a detailed business description – a "bottom-up approach. There are between five and ten core business processes.

Note – for this exercise, we are only concerned with the core "line of business" processes that are unique to publishing a newspaper. Don't worry about executive/strategic processes, or processes in supporting areas such as Human Resources, Facilities, or Information Systems.

The UnderCurrent alternative newspaper – self-study exercise (1)

Case Study: The UnderCurrent Weekly Newspaper Part 1: Process Discovery

Purpose: practice identifying core business processes starting from a detailed business description – a "bottom-up approach. There are between five and ten core business processes.

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Suggested approach

- Read the case study noting any terms and activities.
- Classify the terms (thing, fact, metric, etc.) The "things" will be the main nouns.
- List the activities you found, and identify additional activities by adding verbs to each noun, checking that "noun is verbed" indicates a concrete result.
- Link the activities in sequence, looking for 1:1, 1:M, M:1, and M:M links. As discussed, the 1:1 links indicate activities that are probably part of the same process.

Overview:

The UnderCurrent ("The UC") is a weekly "alternative" (non-mainstream) newspaper in a large city:

- It publishes on Thursdays, immediately before the weekend.
- Is distributed free from boxes and racks in public areas.

- Classified and Display (or Retail) advertising are the paper's only sources of revenue.
- Its urban readership is very attractive to advertisers, and to emerging competition.
- To qualify for tax breaks, and avoid stiff penalties, it must contain no more than 70% advertising (no less than 30% editorial content.) Maintaining this revenue/compliance balance is critical.

The newspaper is a victim of its own success:

- Operations are stretched to the limit; stress is rising, along with errors and lost opportunities.
- The paper simply can't get any larger than about 100 pages without unacceptable error rates and therefore lost revenue. They have to turn away business, putting a ceiling on revenue and profit.
- Competitive newspapers and new media outlets are growing and going after the UC's advertisers.

Dee Hearst, the Publisher (or CEO) and Kevin Donnelly, the Assistant to the Publisher (or COO), have decided to make major investments in information systems. The consultants have suggested a "process-driven" approach to determining requirements, then selecting and configuring commercial software.

On the following pages are extracts from interviews with members of the UC's management team.



The UnderCurrent alternative newspaper – self-study exercise (2)

•

Publisher - Dee Hearst

Relevant responsibilities:

- Assist in soliciting prospects that are potential large accounts
- Help to identify, develop, and launch new products (newspaper sections or regular features.)

Major issues:

- Competition.
- Retail Sales Reps have become order takers, and aren't acquiring major new customers, because the commission structure doesn't reward that. Junior staff should handle regular ad orders.
- Can't tell if a new product is succeeding there is no data relating sections and ad revenue.
- Ceiling on growth. After 100 pages, the higher error rate causes profit to shrink due to refunds.

Assistant to the Publisher - Kevin Donnelly

Relevant responsibilities:

• Essentially, keep operations running smoothly Major issues:

- The "Monday to Wednesday crunch." 75% of the week's work (designing ads and laying out the paper) take place Monday to Wednesday. Production works flat-out during the crunch, causing most of the expensive errors, but have slack time the rest of the week!
 - Departmental isolation and conflict. For example, look at getting a display ad into the newspaper - Sales meets with a Client to take the order, Production builds the ad, Sales reviews the Ad with the Customer, Production prepares it to run in the paper after the Customer approves it, Traffic does whatever they do with their runsheets, and finally Accounting calculates commission, issues an invoice to the Advertiser for each individual ad order, and collects the receivable. Their objectives conflict, e.g. Sales wants to submit ad orders to Production as late as possible, so they have a bigger selling window, and Production wants the ads in earlier, to reduce the "Monday to Wednesday Crunch," but at the same time, Production wants to spend as little time as possible working on an ad and turn it around quickly, but Sales Reps would prefer it right the first time. They're working at cross-purposes!
- No good data, such as:
 - Revenue and profit by Customer;
 - Revenue by section, and how it varies by issue;
 - Booked ads (placed orders) for the current or future editions.



The UnderCurrent alternative newspaper – self-study exercise (3)

Editor - Gabriel Garcia

Relevant responsibilities:

- Identify stories, and assign them to reporters, or solicit contributions from freelancers
- Proofread and edit editorial items (stories, news items, editorials, columns, reviews, etc.)
- Adjust editorial content (add or drop) based on ad volume, as calculated by Traffic with the master runsheet, to maintain the ration of 70% advertising to 30% editorial content
- Plan the introduction of new products, such as the automotive section now being added

Major issues:

- Need immediate access to ad orders, e.g. an ad for a concert may trigger us to arrange an interview.
- Can't relate advertising revenue to section, so we don't know which sections are moneymakers and which are "subsidized" by other sections. (Advertisers usually request that display ads go in a particular section.) We can't tell if a new section is going well, needs help, or should be dropped.

Manager of Systems - Claude Johnson

Relevant responsibilities - the usual:

- Maintain the infrastructure hardware, network, and system software
- Develop or purchase and install application software
- Write custom reports

Manager of Systems - Claude Johnson (continued) Major issues:

- The runsheets are the "ad database," so a shared electronic runsheet in Excel would be great. (Note a runsheet is a spreadsheet of the display ad orders for an upcoming issue. Each row is a single ad, and the columns record details such as the customer, ad name, section, ad size, etc. Each Sales Rep maintains their own runsheet, which are then consolidated by Traffic into the master runsheet.)
- A central Customer database for sales and finance would be great.

Manager of Classified Sales - Manny Lines

Relevant responsibilities:

- Answer calls (or receive letters or faxes) from Customers and enter classified ads into the system
- Participate in product planning
- Pass each classified ad to Production to include in the upcoming issue Major issues:
- Only 12% of the paper's advertising revenue comes from Classifieds, so are the "poor cousins" compared to Retail. Other publications get up to 40% from Classified sales.
- The Classified Ad System is very primitive it doesn't support visual ad makeup, automatic pricing, system generated upselling prompts, automatic callback for renewal, or anything a modern system should. All ads must be pre-paid, which further cuts into selling time. It takes about 5 times as long to take an ad as it should, which leaves no time for proactive selling.

The UnderCurrent alternative newspaper – self-study exercise (4)

Manager of Retail Sales - Phil Paige

Relevant responsibilities:

- Determine market needs, primarily through designing, conducting, and assessing surveys
- Capture new customer accounts, and negotiate contracts (volume-based pricing, for instance)
- Meet with clients at their businesses to take orders for display ads
- Submit display ad orders at the UnderCurrent office, and complete all the ad order paperwork
- Assist in developing new products
- Review ads with, and obtain approval from clients after Production has designed ads

Major issues:

- Need a modern contact management system to help prospect for new customers or maintain relationships with current ones.
- Entering ad orders is time-consuming, so the reps *hate* to stop selling to submit orders. They complete order forms by hand, and then copy information about each order onto their weekly runsheet, the "chit" (a small tracking form) which is stapled to the ad folder, and the booking sheet.
- The error rate for ads is 5% to 10%, so customers are cautious and a lot of the sales rep's time is spent on reviews of new or revised ads. 50% of new ads aren't approved until the second review.

Manager of Traffic - Evelyn Wong

Relevant responsibilities:

- In general, we coordinate the work of four other departments Retail Sales, Classified Sales, Production, and Editorial. We watch over the flow or "traffic" of ads and information, but don't typically get involved with individual ad orders.
- Collect Sales Reps' runsheets on Monday at noon, and consolidate them into a "master runsheet."
- Calculate the size of the issue based on the volume of ads as recorded in the master runsheet, and an ad loading factor of 70%. This determines how much editorial content will have to be dropped to meet the 70/30 ratio.

Major issues:

- We need automated runsheets all the paper copies are never in synch. With automated runsheets, the issue size could be calculated automatically.
- The "crunch" is a frantic period.

The UnderCurrent alternative newspaper – self-study exercise (5)

Finance and Accounting Manager - Penny Nichols

Relevant responsibilities:

- Confirm accurate pricing of retail ad orders.
- Create and issue invoices for display advertising, ensure collection of payments, receive and post payments.
- Calculate commission due on each ad order and apply it to the Sales Rep's payroll account.
- There are other F&A duties maintain the General Ledger, run the biweekly payroll (including commission payment,) Accounts Payable, Financial Planning, Cash Management, and Management Reporting.
 Major issues:
- Poor coordination with Sales. We manually re-enter invoicing data from the Sales Reps' runsheets (Customer #, Sales Rep #, ad title, ad size, price, etc.) into our old Great Plains Billing System. The reps have already copied this information once, from their order forms onto their runsheet (as well as onto the chit and the booking sheet) so this introduces even more errors.
- Retail Sales Reps often price an ad improperly, giving too large a discount to close a sale. We point out the error to the Sales Rep, and they then negotiate with the Customer. It's a mess we spend time re-pricing, and collecting late payments that the Customer doesn't feel obligated to pay.
- The root problem is that Sales Reps don't have any automated pricing support, which would calculate discounts that a Customer was entitled to and ensure they lived up to the terms of their contract. There's no incentive for them to clean up the situation, because they get their commission even if the account doesn't pay.
- We'd love to improve cash flow by getting invoices out sooner, but we can't start on invoicing until the paper is printed and we receive the updated master runsheet showing the ad's final location.

Production Manager - Gina Tremonti

Relevant responsibilities:

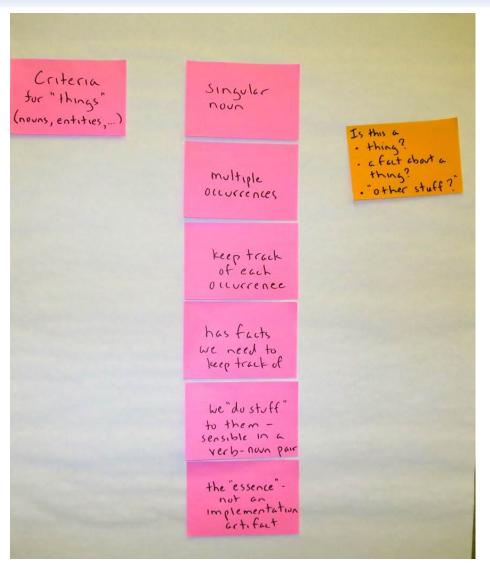
- Graphic artists design display ads, which are anything beyond the simple text ads that make up most of Classifieds. Approximately 50% of display ads are new, 30% are repeats (some with minor changes to the text,) and 20% are "camera-ready" (the client provides finished artwork.)
- Mock up ("dummy") each page of an issue showing where each display ad and each editorial item (story, column, etc.) will be placed.
- Produce the final camera-ready pages. Designers assemble formatted text and finished ads onto "flats", which then get sent to the printer. Most papers do this electronically, but we still do it by hand with Xacto knives and paste.

Major issues:

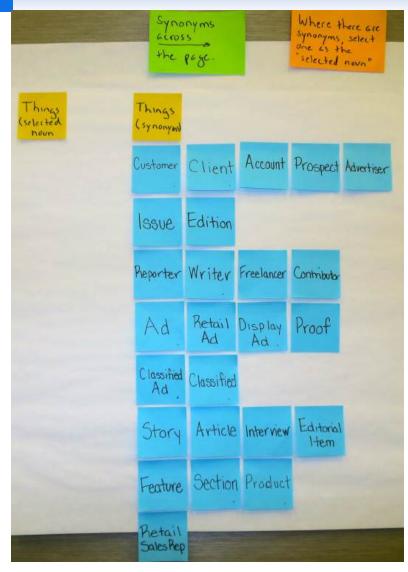
- The "Monday to Wednesday Crunch," when we prepare the issue for printing and then distribution on Thursday! Retail Sales Reps submit over 80% of ad orders at the Monday noon deadline, so Graphic designers are overwhelmed with designing display ads. Late or canceled ads mean we often have to redo the layout for the edition. We are overworked from Monday afternoon through Wednesday, and are underworked on Thursday and Friday. The workload must be leveled somehow.
- Need a single electronic runsheet one central view of all the ad details for the upcoming edition. Each Sales Rep produces their own runsheet, but we don't have an overall view until Traffic consolidates the runsheets on Monday afternoon.

The UnderCurrent: nouns and synonyms

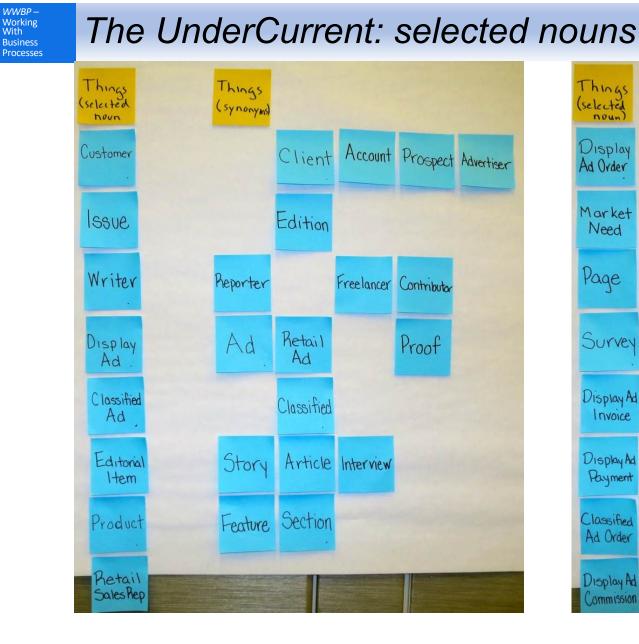




The UnderCurrent: nouns and synonyms









The UnderCurrent: nouns and synonyms

| Selected nouns | Synonyms | | | |
|---------------------|--|--|--|--|
| Survey | | | | |
| Market segment | Market need | | | |
| Product | Section, feature | | | |
| Editorial item | Article, story, interview, wire item, copy | | | |
| Writer | Reporter, freelancer, columnist, contributor | | | |
| Issue | Edition | | | |
| Page | Flat | | | |
| Customer | Prospect, account, client, advertiser | | | |
| Display ad order | Order, ad order, retail ad order | | | |
| Display ad | Ad, retail ad, proof, artwork | | | |
| Classified ad order | | | | |
| Classified ad | Classified | | | |
| Invoice | Bill, receivable | | | |
| Payment | Receipt, cheque | | | |
| Commission | | | | |

Most major business processes and subprocesses work on the core nouns – this is very helpful in discovering what your processes are

But first... agree on definitions!

The UnderCurrent: terms other than "things"

Facts

Error, invoice amount, run date

Metrics

Content percentage, growth rate, profit, *sales*, cash flow, circulation, readership, market share, retention rate

Organizations, departments, jobs, roles, ...

Traffic, Sales, Production, Graphic designer, Sales rep

Processes, functions, activities, tasks, ...

Billing, design

Systems, tools, equipment, mechanisms, ...

G/L system, customer database

Reports, forms, screens, queries, ...

Booking sheet, runsheet, order form, master runsheet

Others-too vague, single instance, not tracked, out of scope

Competition, crunch period, the paper, reader



Important discoveries from terminology analysis

Product was not what we thought – we assumed the product was the newspaper, but it was actually a recurring **section** or **feature** within a newspaper

The **reader** was not considered to be a **Customer** – only **advertisers** (and *potential* advertisers!) were Customers

We thought the **paper** was the same thing as an **Issue** or **edition**. Not! The paper was a way of referring to the entire business.

Ad and Ad Order were different – an Ad was the image that would appear in an Issue, the Ad Order was the request and run instructions

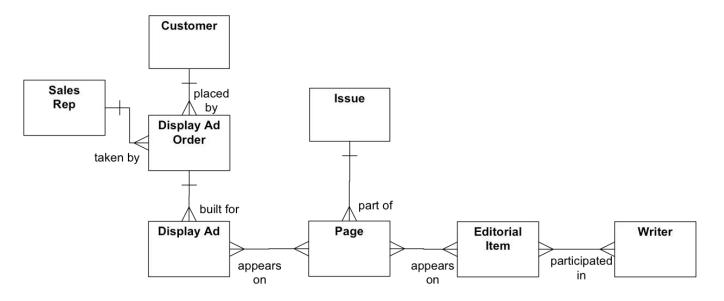
Questions about "things" form the concept model

- What facts do you need to know about these things? (helps determine if people are talking about the same thing)
- How are these things related?

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What rules govern the relationships?



An *entity-relationship diagram* or ERD – a *conceptual data model* or simply a *concept model*

Read the following narrative for the UnderCurrent's "Fill Display Ad Order" process, and *frame the process*. You should also refer to the longer narrative that introduced this case study.

The components of *framing the process* are:

1. Triggering event(s)

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- 2. Result for primary customer and other stakeholders
- 3. Activities (~5 to 7 major activities or sub-processes)
- 4. Cases or variations (at this point, draw a *Process Scope Model*)
- 5. Functional areas involved (now draw a *Process Summary Chart*)
- 6. Individual actors and their primary responsibilities
- 7. Systems and other supporting mechanisms

Self-study exercise (continued) – Framing the Process (1)

The following points describe the contributions of the various actors who participate in, or are related to, the "Fill Display Ad Order" process. This information is to be used in conjunction with the earlier scenario to frame the process, and then develop the initial swimlane diagram.

Client

- Contacts sales rep to request placement of an ad order, or responds to a Sales Rep's request for a meeting to place an order
- They agree on a time to meet at the client's place of business

Retail Sales Rep

- Travel to client site
- Determine client's approximate budget
- Collect design requirements, ad text ("copy"), and other ideas
- Calculate price, revise requirements, recalculate price, etc
- Finalize specifications (ad design, size, placement, price)
- Complete order form and obtain client's signature
- Collect payment, if the client's contract requires advance payment
- Return to the UC's office (maybe later the same day, but usually not until Monday noon)
- First, submit any contracts and pre-payments to Finance and Accounting.
- Then, the Rep fills in a "chit" for each ad, summarizing basic ad information. The chit is a small form that is used to track all work performed on the ad. The ad order and other materials (copy, artwork, detailed specification, etc.) are placed in a folder, and the chit is stapled to the folder

- The ad is entered (hand-written) on the "booking sheet,", large spreadsheet-like piece of paper divided into three sections (new ads, repeats, and camera-ready) which is used to track where the ad folder is and its current status.
- Ads related to entertainment events are photocopied and passed over to editorial
- The ad folder is placed in the "blue bin", which means "awaiting production work"
- Enter ad detail on the runsheet. Some reps stay on top of this, but most don't do it until Monday. In all cases, the runsheet is turned in to Traffic on Monday at noon
- Check the "review bin" to see if there are ads returning from production for the rep to review
- Inspect the ad, sometimes suggesting changes before taking the ad "proof" to the client.
- Review the ad with the client, at their place of business. Most ads are reviewed at least once with the client, and 50 % of new ads have two client reviews before they are approved.
- If changes are necessary, document them and place the folder back in the blue bin. If the client has approved the ad, remove the chit from the folder and place the folder in the "final" tray, indicating the ad is finalized. The chit is placed on a big spike as a way to track "finals".

Self-study exercise (continued) – Framing the Process (2)

Traffic

- Collect runsheets on Monday afternoon
- Consolidate them into one "master runsheet" which is used to calculate the necessary size of the paper to achieve 70% ad loading, and notify Editorial
- After the issue is published, update the master runsheet with the page number the ad appeared on, and pass the master runsheet on to Finance.

Production

- A production supervisor periodically reviews the blue bin, and sorts the ad folders into other bins for specific designers.
- If the folder is for a repeat ad with no changes, the ad will be removed from the folder and stuck to the "Approved" board.
- When a Designer finishes work on an ad, they retrieve the next folder to work on from their bin.
- The designer will do whatever work is necessary, print a high quality copy as well as a "proof" for the sales rep to review with the customer, and place them in the folder
- On completion, the designer marks the chit to indicate that they have worked on the ad, the time spent, and then places the folder in the "out" bin
- The supervisor will do a quality check, and return the folder to the Designer if more work is necessary, but that is infrequent (much less than 10% of the time.) Otherwise, they place the folder in the "review" bin for the sales rep, and mark the booking sheet with the ad's current status (e.g., "awaiting first review"). They will also remove the high quality copy of the ad and put it on the "Regular" board.

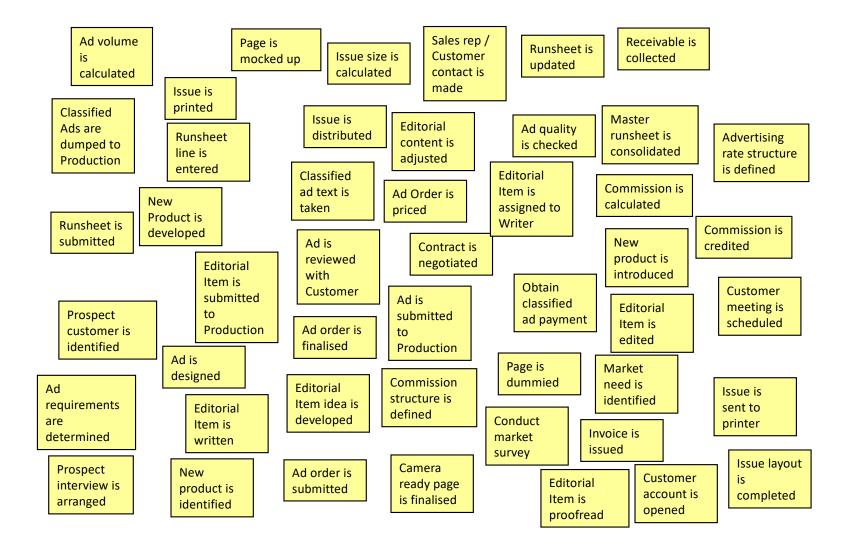
• The supervisor periodically check the "finalized" bin to determine which ads are finalized, and moves them from the "Regular" board to the "Approved" board, which means they are ready for the "Produce Issue" process.

Finance and Accounting

Once the paper has been printed, and the updated master runsheet from Traffic is received, various things happen:

- The Finance Clerk enters the updated runsheet information into the Billing System. At the same time, the sales rep's commission for each ad is calculated and credited to their payroll account.
- The invoices are produced by a batch job which is scheduled to run each Thursday night.
- After the invoices are printed, a Finance Clerk begins preparing the invoices for issuing to customers. They start with a stack of newly printed issues, and the invoices. For each invoice, the page on which the corresponding ad was printed is located (using info on the master runsheet) and torn out of the finished paper – this is the "tearsheet." The tearsheet is attached to the invoice, and then mailed to the Customer. Afterwards, the runsheet copies are filed.
- When payment from the Customer arrives, it is posted using a Billing System function.
- Any contracts from the sales rep are reviewed and a new Customer record is created if necessary, pre-paid payments are posted, and the contract is filed.

The UnderCurrent: discovering events ("noun is verbed")

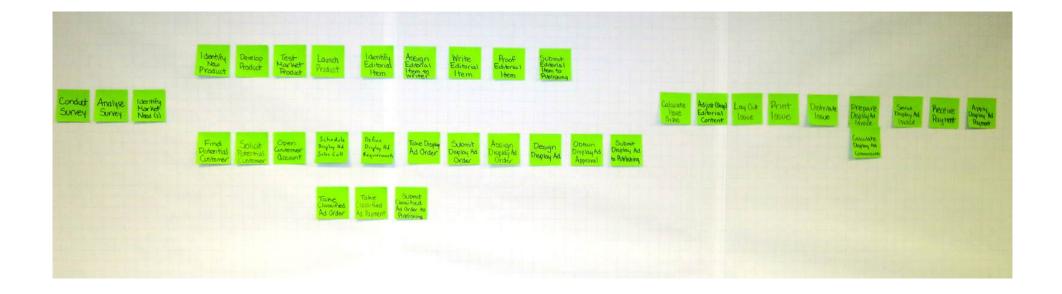


The UnderCurrent: or identify activities (add verbs to nouns)



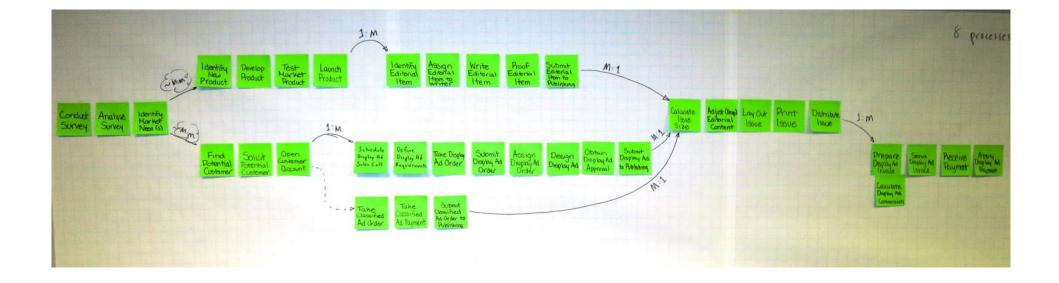
The UnderCurrent: sequence activities

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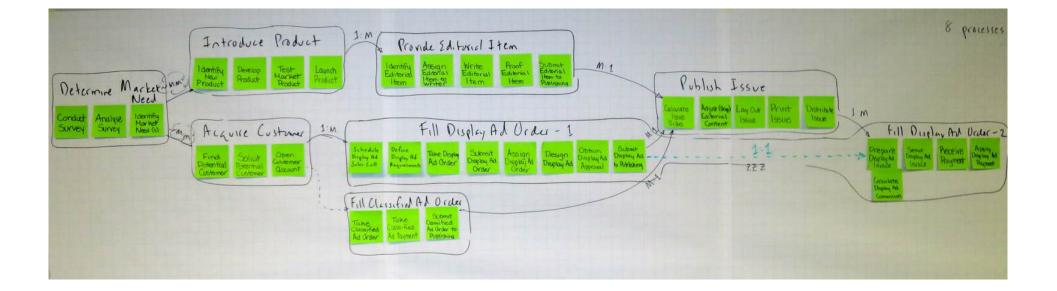
The UnderCurrent: identify 1:M and M:1 connections

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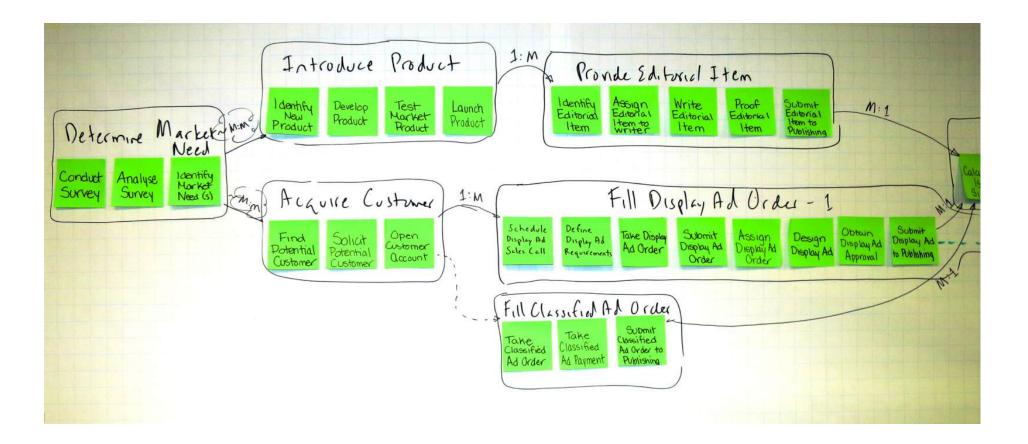


The UnderCurrent: identify and name processes

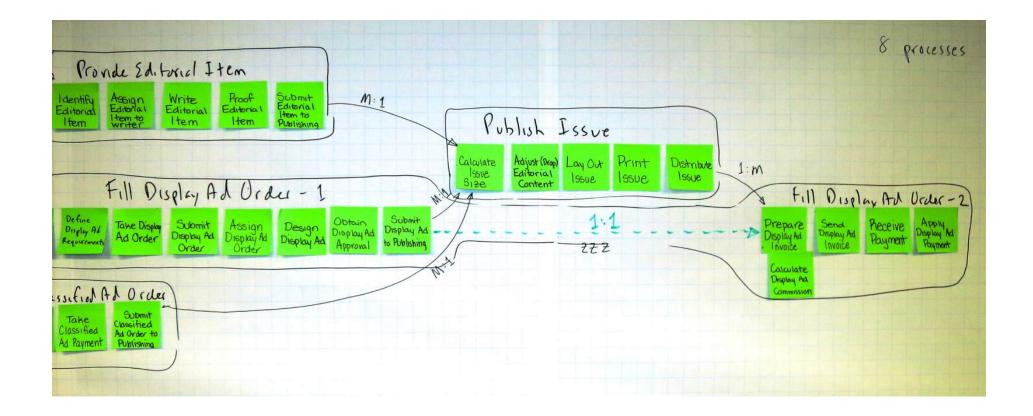
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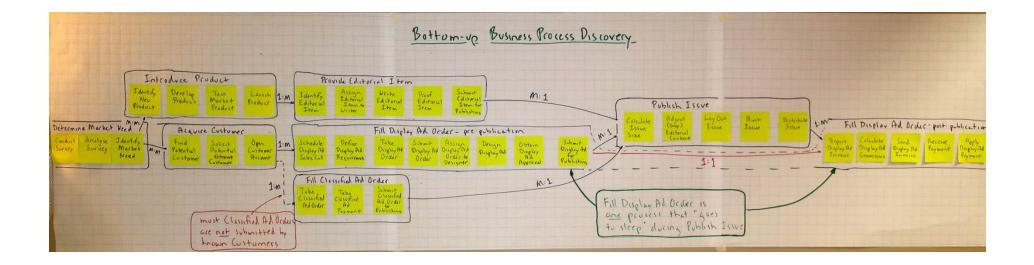
The UnderCurrent: identify and name processes (close-up)



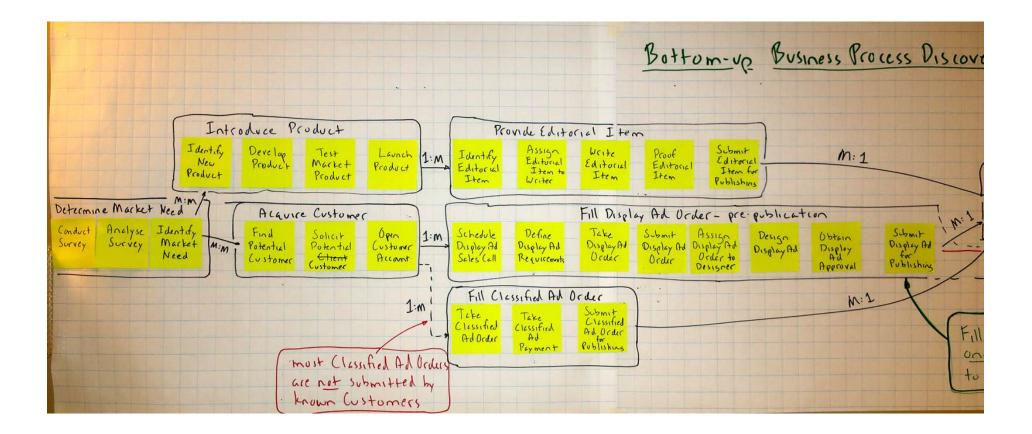
The UnderCurrent: identify and name processes (close-up)



The UnderCurrent: process discovery notes - 1



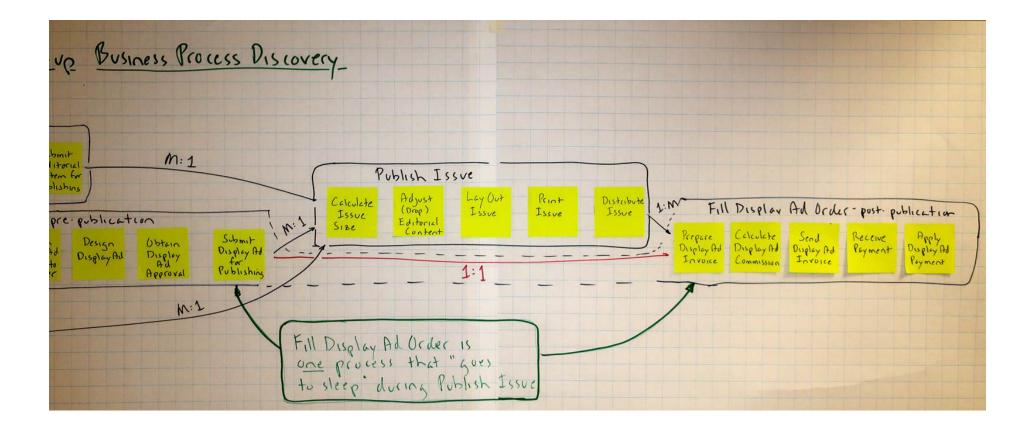
The UnderCurrent: process discovery notes - 2

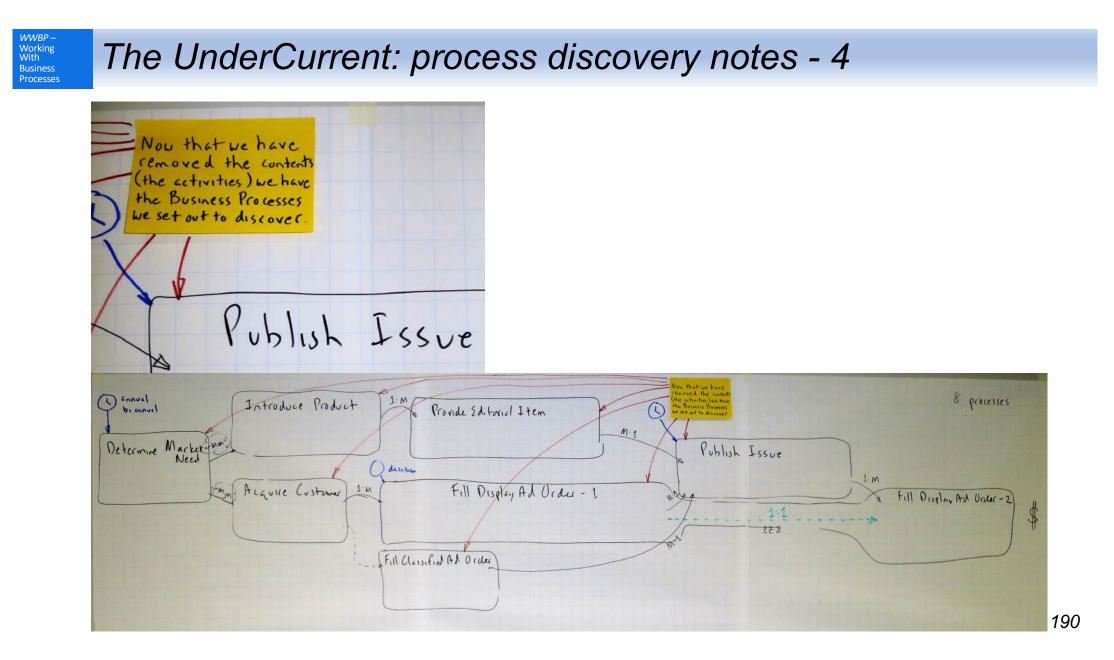


The UnderCurrent: process discovery notes - 3

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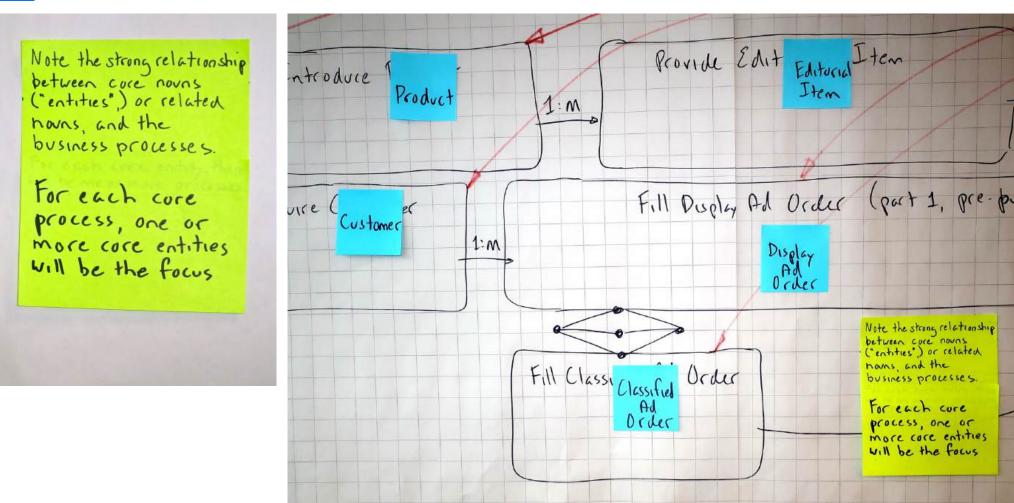
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The UnderCurrent: process discovery notes - 5

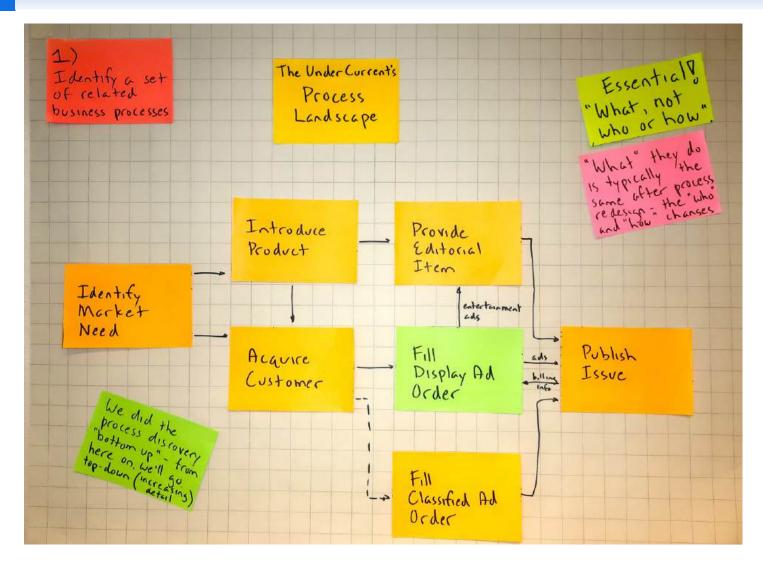
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The UnderCurrent: draw Process Landscape

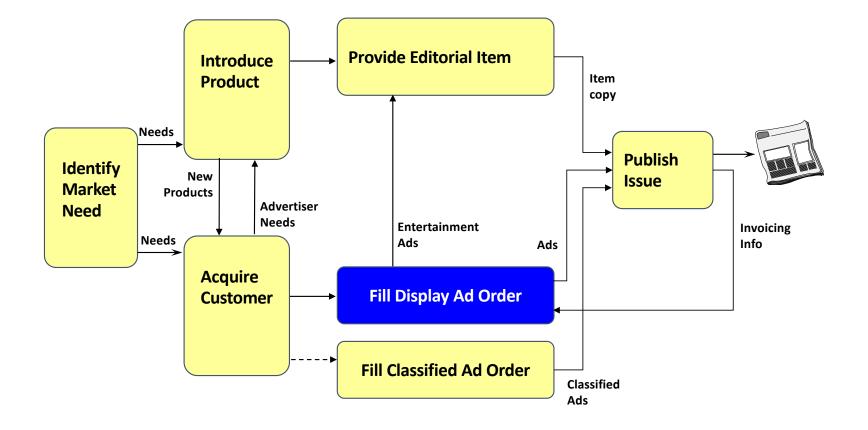
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Processes

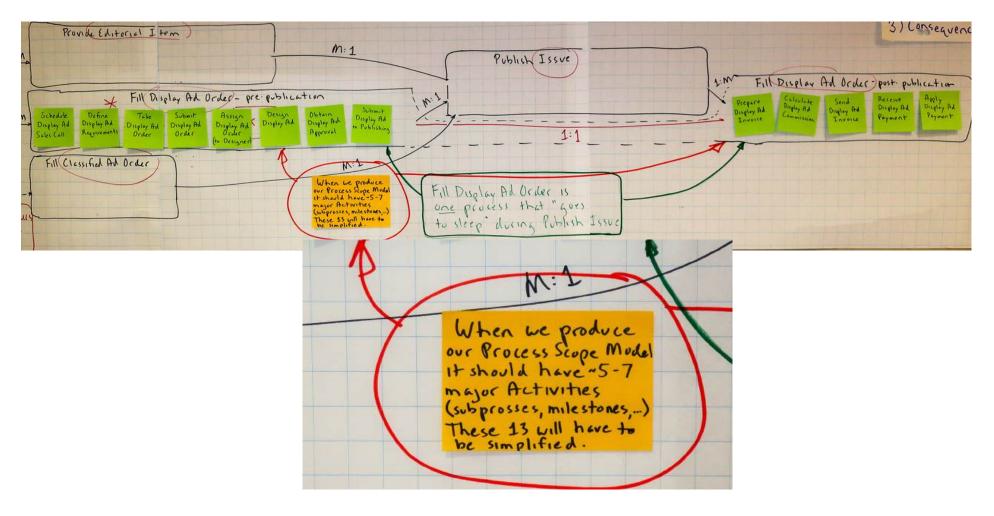


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The UnderCurrent: Process Landscape



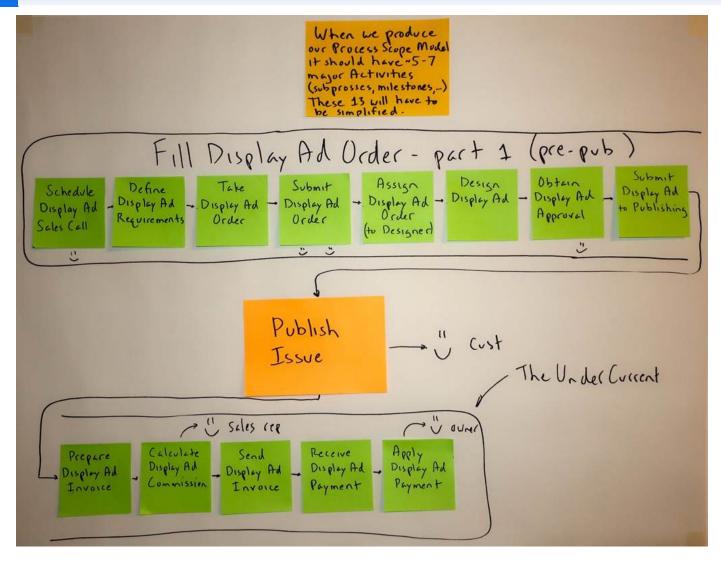
The UnderCurrent: develop Process Scope Model



The UnderCurrent: develop Process Scope Model

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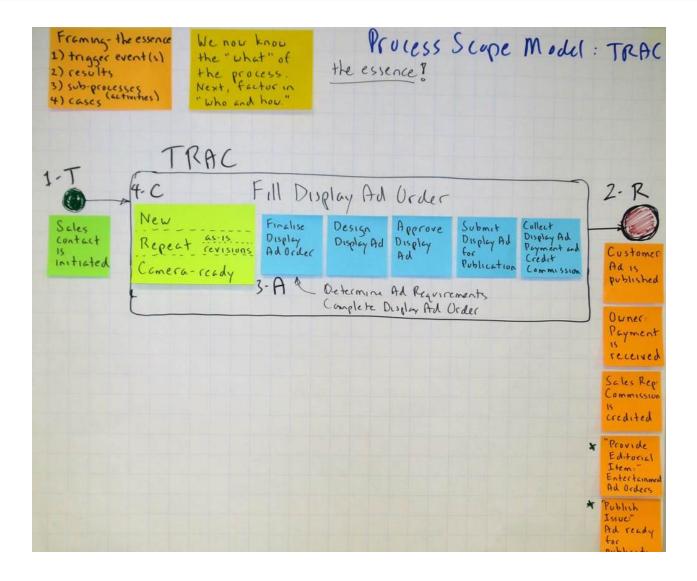
Business Processes



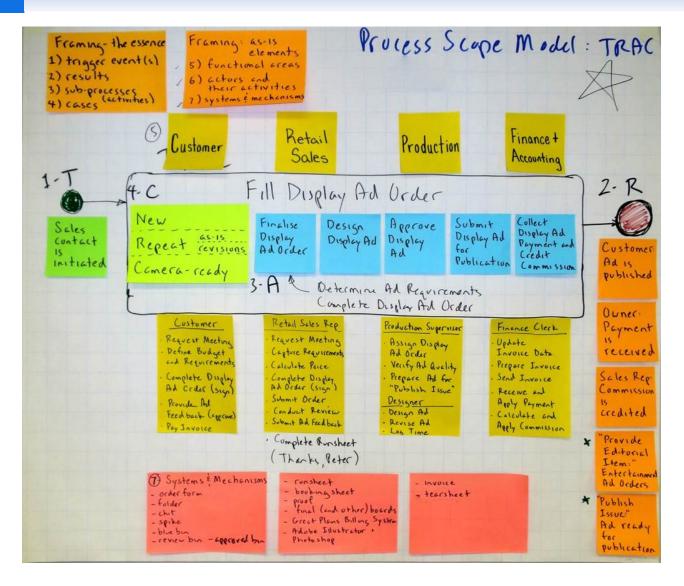
The UnderCurrent: develop Process Scope Model

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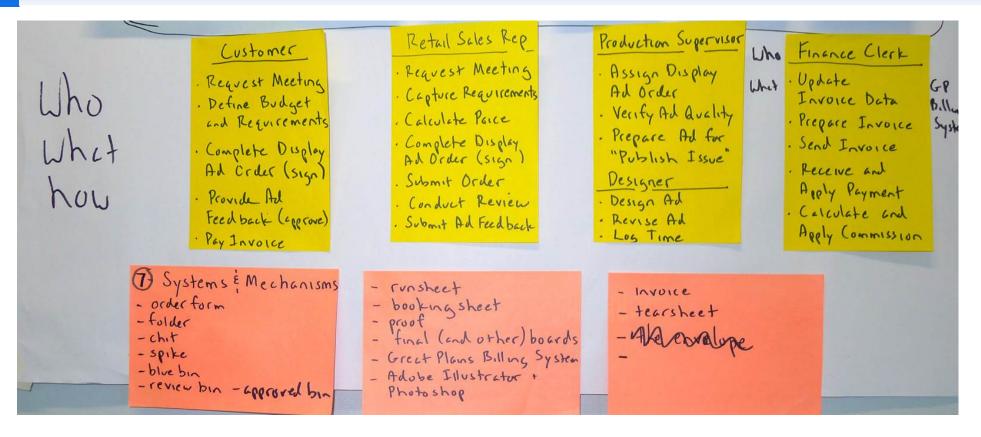


The UnderCurrent: add "who & how" – Process Summary Chart

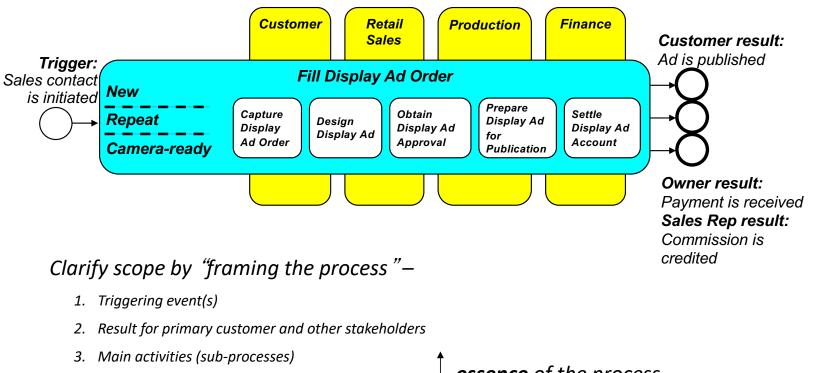


The UnderCurrent: Process Summary Chart close-up

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"Frame" the process before flow modelling



- 4. Main cases or variations
- 5. Functions or organisation units
- 6. Actors and responsibilities
- 7. Applications, data sources, other mechanisms

essence of the process

as-is elements of the process, for clarification

Exercise – assessment, goals, differentiator

Using the earlier narratives, complete the following:

1. Initial assessment of the as-is process *Stakeholder problems* Customer Performers Owner/manager Others *Business context* - changes in the environment *Consequences of inaction*

2. To-be process goals, subjective and objective (measurable)

3. The process differentiator selected at the UnderCurrent was *Operational Excellence*

Example from in-person workshop – assessment to goals

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Processes

| Stakeholder-based Initial Assessment of the as-is. ("Case for Action") 1)Stakeholder concerns <u>Customer</u> : excessively "high touch" (too many meetings) long lead times from contact to publication eccors in ads and invoices | Stateholder-based goals for the to-be Subjective Objective "Why will they 'love'?. The new process?" The new process? Fewer or no meetings - was corrected to be topic 1 target 1 timeframe - was corrected to be - was correc |
|--|--|
| Performers: too many review meetings Sales Rep: which cut into selling time- overhead ("administrivia") in order submission procedure <u>Production</u> Monday to Wednesday Crunch too many cycles to obtain ad approval <u>Finance</u> redundant ad order data leading to errors Iack of pricing controls <u>Owner</u> : ceiling on growth Just revenue still frustriction 2) Context: growth, customer expectations, IT, 3) Consequences of incition: Out of business | fewer or no meetings scheffrom burdensome relief from of ad order relief from burdensome relief from burdenso |

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Process summary poster

| Fill Display Ad Order | | |
|--|--|--|
| Customer or Sales Rep requests sales meeting Capture Display Ad Order Display Ad | TOP | |
| Assessment The environment is completely different than it was when our advertising process was designed The size of an issue is far higher, and ad volumes are far greater Customers demand more (e.g., late ad orders) Competitors are anxious to capture our advertisers We are stretched to the breaking point - further growth is not possible without fundamental changes The Monday to Wednesday Crunch is a huge cause of stress Errors are becoming commonplace, leading to Customer frustration and lost revenue due to make-goods and refunds Our process is cumbersome, doesn't support a smooth flow from customer requirements to finished ad, and requires too much effort from everyone, including our Customers Unless we change our methods, competitors with superior processes and up to date technology will eat our lunch | Goals Workload will be "smoothed" - ad orders will be available for design work in "near real time", and the Monday to Wednesday Crunch will be eliminated We will be able to respond more quickly to ad orders, and orders will take an average of one fewer iterations Customers will perceive us as the "easiest to deal with" advertising vehicle, as well as having the best audience Information on Customers and Ads will be captured once, correctly, and be immediately available to support operations and decision-making We will sustain a growth in revenue and ad volumes of 25% per year | |
| Metrics 70% advertising, 30% editorial content weekly circulation of over 100,000, paper size approx. 100 pages growing 15% per year display ads are 50% new, 30% repeats (possible minor changes), 20% camera ready 800 display ads per week average of 1.7 reviews before a new display ad is finalized 6% ad error rate 75% of ad orders submitted on Monday morning | Potential Enablers Revised commission structure to encourage new business development and early submission of ad orders Allowing Sales Reps to perform simple (e.g., text) updates to ads, and direct contact between Designer and Customer Shared databases for Customer and Ad Order info Order Entry software incorporating pricing capabilities Mechanisms for getting ad orders into Production in "near real time" (fax, e-mail, Web, wireless,) "Self-serve" order entry capability for Customers via the Web for simple ads, renewals, and simple revisions | |

Exercise for self-study – draw initial Handoff Diagram

Using the *three questions* we learned earlier, develop an initial Handoff Diagram:

- 1. Who gets it next?
- 2. How does it get there?
- 3. Who *really* gets it next?

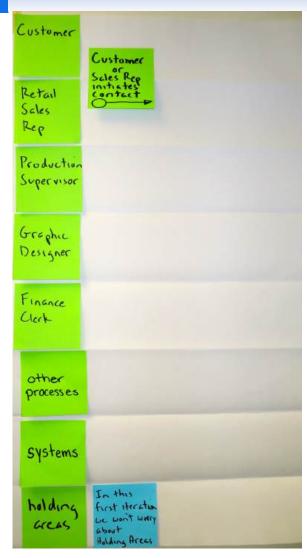
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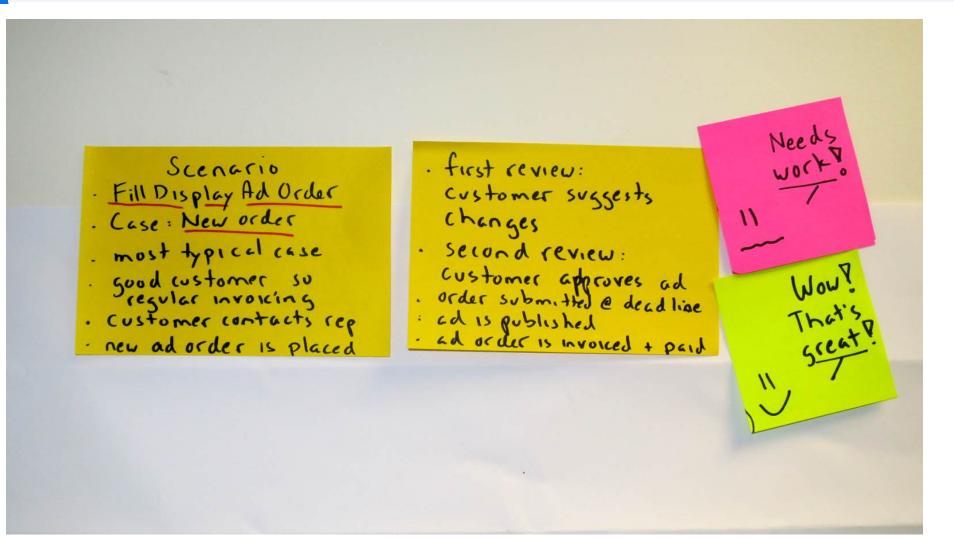




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Owner: payment is received Sales Rep: Commission 15 credited Custo mer. ad is published

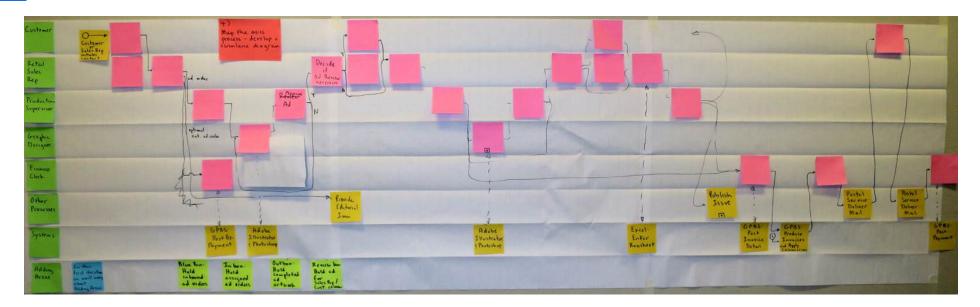
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The UnderCurrent –initial Handoff Diagram

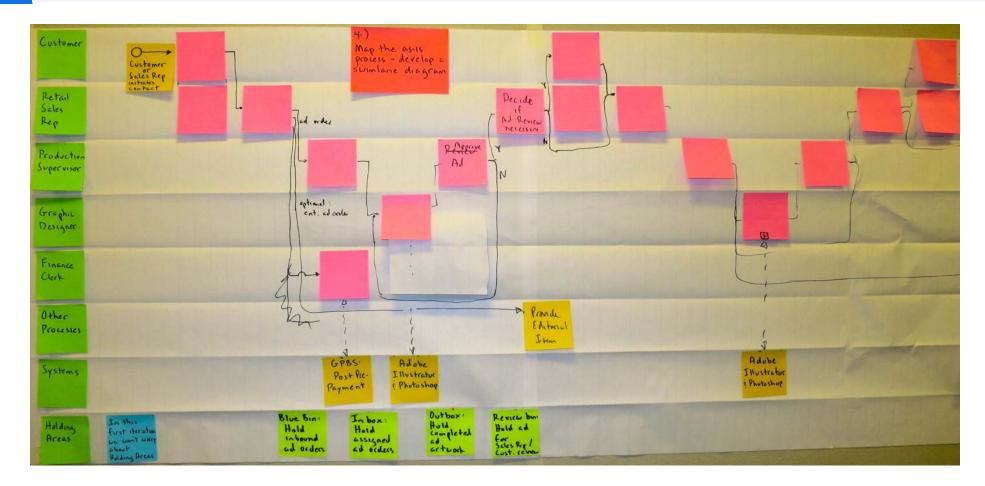


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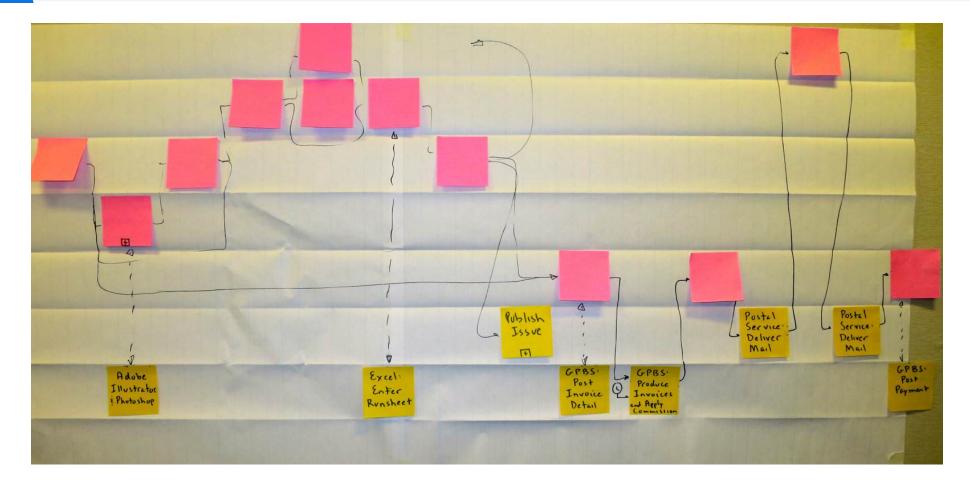
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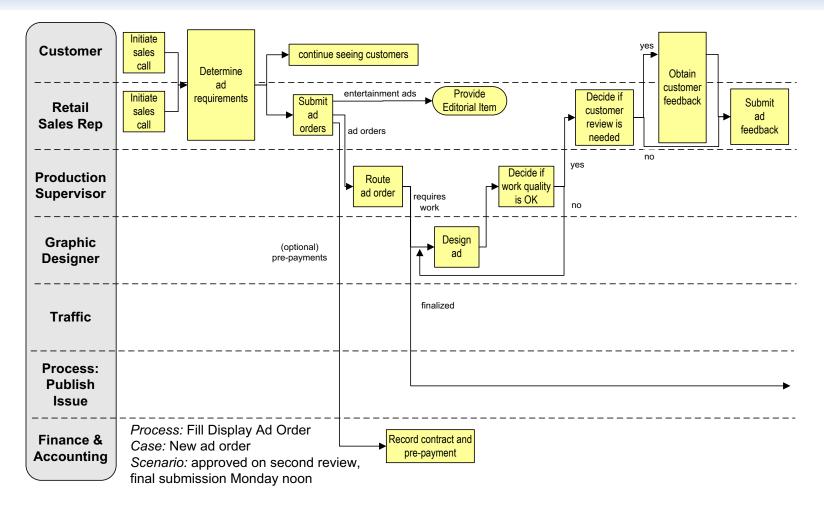


The UnderCurrent — initial Handoff Diagram close-up

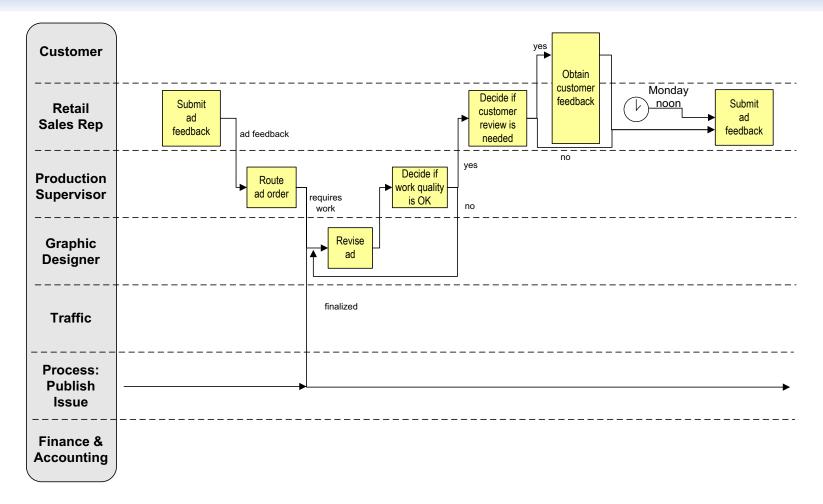
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The UC: "As Is" Handoff Level Workflow – 1



The UC: "As Is" Handoff Level Workflow – 2



The UC: "As Is" Handoff Level Workflow – 3

