Five Key Points About Business Process Change – *Avoiding the Common Pitfalls*

An executive briefing presented by Adept Events and Clariteq Systems Consulting for University Medical Center Groningen

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







Instructor / course developer background...

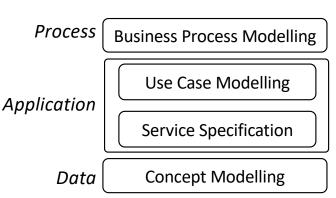


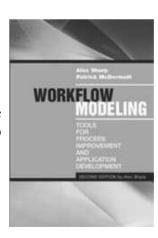


- 40+ years experience as an independent consultant:
 - Business Process Change discover, model, analyse, and design/redesign processes
 - Application Requirements Specification
 - Data Modelling and Management
 - Facilitation & Organisational Change
 - Project Recovery
- Consulting, teaching, speaking globally (pre-pandemic)
- Awarded DAMA's global Professional Achievement Award for contributions to "human-friendly" data modelling

Check out the nice reviews on Amazon - http://amzn.to/dHun1o

- Author of "Workflow Modeling"
 - best-selling book on process modelling & improvement
 - second edition a complete re-write





Small, husband & wife company, global clients

ABB (ASEA Brown Boveri)

Aflac

American Honda

AMP (Australia Mutual Provident)

BackOffice Associates

Bank of Finland

Bellrock

Brisbane City Council (Australia)
Canadian Natural Resources Ltd.

City of Seattle Civica UK

Clearwater Paper

Corvias Dell

DHL Express

Dutch National Bank

Ericsson Essity

Eurojust (European Justice Comm.)

European Central Bank

Fortum

Helse Vest - Norway HM Land Registry - UK

Home Depot

Idaho Transportation Dept.

Intel

ISO New England

ING Bank

JP Morgan Kal Tire KONE

LGM Financial Services

Liberty Mutual

Livestock Improvement Corp.

MacDonald Dettwiler

Manitoba Public Insurance

Marathon Pipe Line

Microsoft

Ministry of Defence - UK

Ministry of the Interior - Slovakia

MTS Allstream

Nexen

Novo Nordisk

Nusenda Credit Union

OP Bank

Partner Reinsurance

Ritchie Brothers Phillip Morris

Roche Diagnostics Salt River Project Saudi Aramco

Serco Shell

Sparta Consulting State Street Bank

SunGard

Synechron Sysdoc

Talent Base

Teck

The MUSIC Group
The Seattle Times

UK Government

University Med Ctr Groningen

Washington Gas & Light

Higher Education –

Carnegie Mellon University

Cornell University Douglas College Gonzaga University

Humboldt State University
The Jackson Laboratory
The Ohio State University
Portland State University

Salt Lake Community College

Southern NH University University of Arkansas

University of British Columbia University of the Fraser Valley

University of Maryland University of Utah

University of Washington Utah Valley University





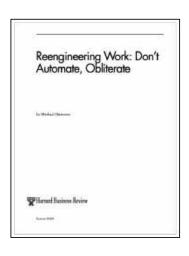
Five central ideas

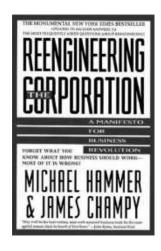
- 1. It's essential to have clarity on what a business process really is
- 2. Existing performance measures are often *functionally aligned* and work *against* business processes
- 3. Enterprise system implementations *must* include a *business process* perspective
- 4. Success with business processes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

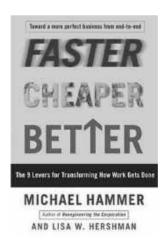
1. Confusion – what is a "business process?"

- 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

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.*

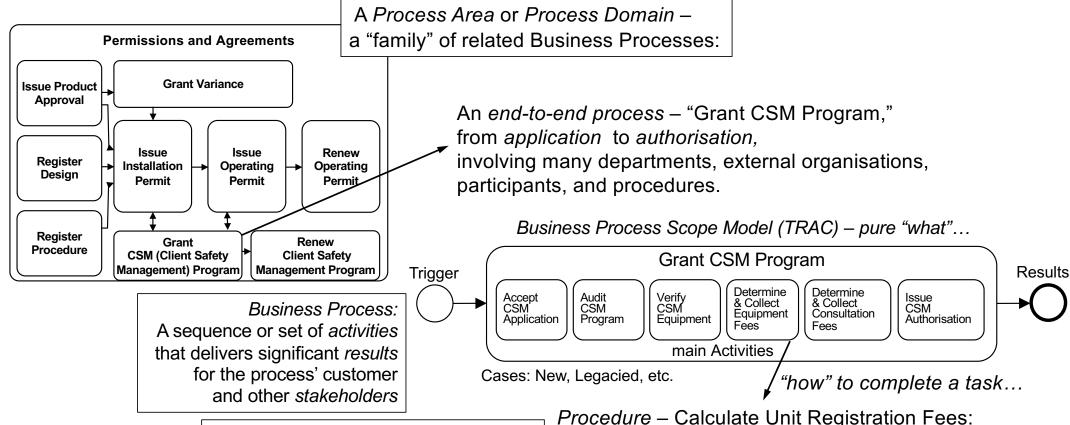
Not an entire process – it's a *procedure* providing instructions for a single task (SWI – standard work instructions)

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

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

The key issues – granularity and orientation

A collection of processes vs. a process vs. a procedure



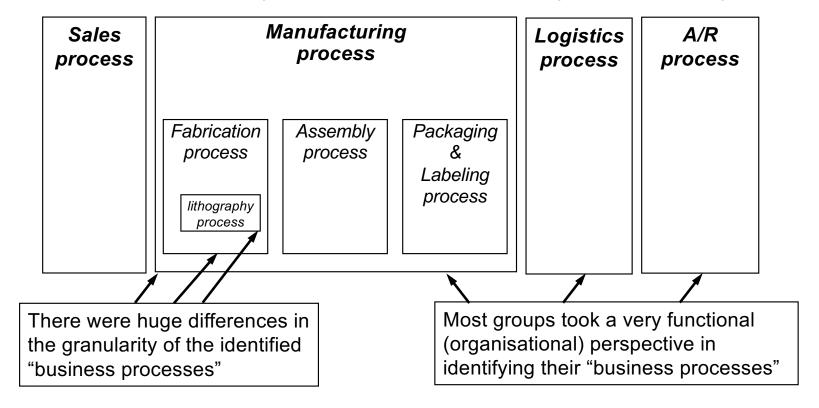
Procedure:

A set of step-by-step work instructions (a job aid) for a specific task or activity that will yield identical results every time Procedure – Calculate Unit Registration Fees: For each Unit:

- Determine Unit Type and Unit Risk Factor;
- Apply Registration Fee from Reg. Fee Table;
- Identify additional Inspection fees from...

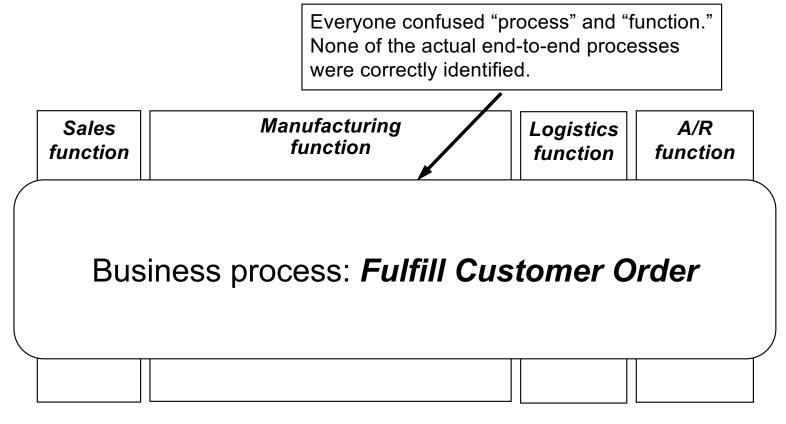
A real life (and expensive!) example

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



"Business Process" = end-to-end, cross-functional, business process.

"Larger" than people think – from initial trigger to final results.

What are the boundaries of the process?



Trigger

Order received? No.

Before that...

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

And before that...

Demand is Signalled. Yes.

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

Result

Any other results? Yes, for other stakeholders.

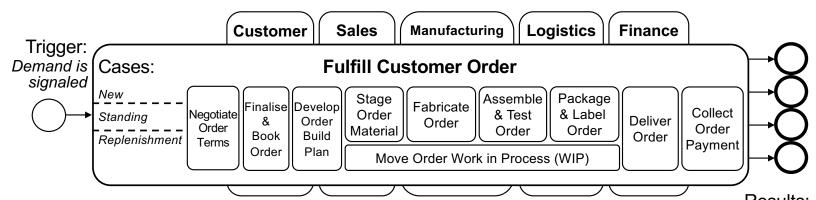
Always trace to the earliest trigger, and to the final results for each stakeholder.

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

I build a

Process Scope Model & a

Process Summary Chart on
~100% of Project Recovery
assignments -



"TRAC" -

- 1 **T**riggering event or events
- 2 **R**esults: final outputs
 - result(s) received by the process' primary customer
 - result(s) for other stakeholders (performers, owner, supplier, regulator, ...)
- 3 Activities: 7 +/- 2 phases, milestones, or sub-processes
 - a phase achieves a significant intermediate result
 - simply ask the participants for ~5 to 7 milestones within the process
- 4 Cases
 - main variations, e.g. "new order" vs. "standing order"
 - verb *qualifier* noun
- 5 Functions or Organisation Units
- 6 Actors and responsibilities
- 7 Systems, data sources, other mechanisms

essence of the process ("what")

as-is elements of the process, for clarification ("who and how") (6 and 7 not shown)

Results:

Customer:
Goods received,
tested, & accepted

Owner: Payment received

Performer: Commission credited

Industry Association:
Order stats reported

Always construct a

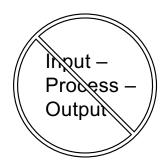
Process Scope Model & a

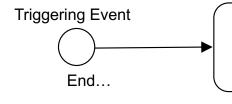
Process Summary Chart before
diving into Workflow Modelling /
Swimlane Diagramming

The essential framework

Business Process:

- 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





A business process -

a sequence (or set) of activities (steps and decisions)

Final Results
...to end

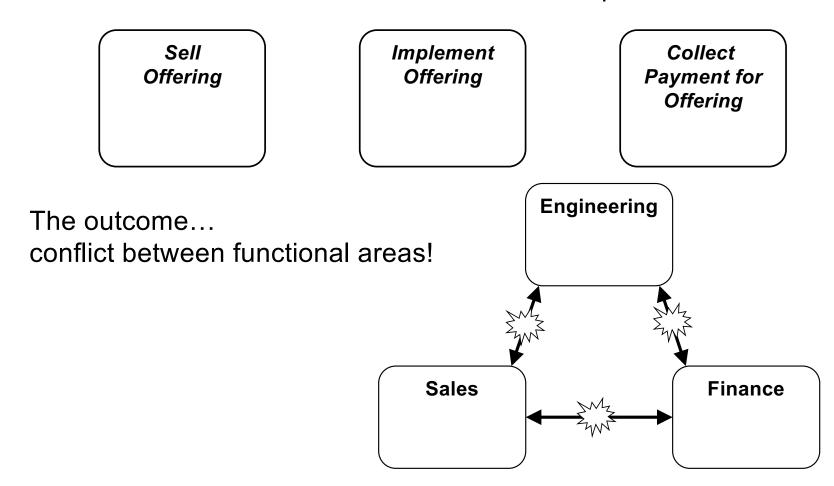
- Three types of events:
 - Decision-based (action)
 - Time-based (temporal)
 - Data-based (conditional)
- The *earliest* triggering event
- Important processes are virtually always cross-functional and involve multiple actors / roles
- May be a defined sequence, or a more ad hoc set of activities
- First, identify "what" it includes –
 Trigger, Results, Activities, Cases ("TRAC")
- Later, we add "who and how,"
 then map the process flow, if there is one

- Three types of results:
 - A service
 - A good
 - Information
- The *final* result

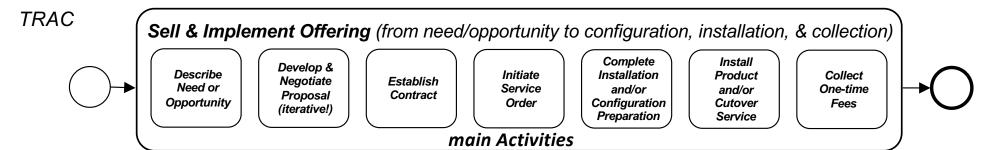
"What" before diving into the "who and how"

A recent Business Process example

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



Triggering Event:

- Prospect / Customer expresses need
- Telco (Inside Sales, Marketing, Sales Rep, ...) recognizes opportunity

Cases:

- BU with or without Telco Internet, no cabling (our focus)
- initial installation
- · service only
- product only
- mixed

Other factors:

TBD

Results:

Customer:

Product / Service is *installed and* operational per original or amended contract terms

Telco:

- Ongoing source of revenue in place
- One-time fees collected Employee:
- Cómmission or referral credit Agent:
- Commission

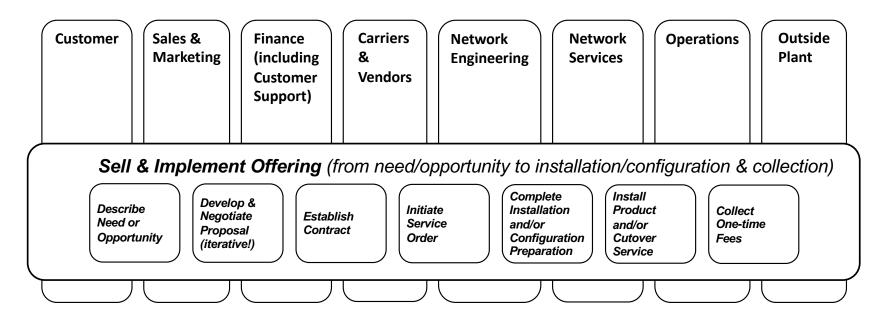
The "token," a Service Order, is changing state from need/opportunity to configured, installed, & collected.

The Business Process could be named "Fulfill Service Order" but the client wanted to name it "Sell & Implement Offering." "We're all in this together!"

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. ...

Multiple roles by organisation for "Sell & Implement Offering"

Network

Engineering

Customer	Sales & Marketing	Finance (including Customer Support)	Carriers & Vendors
Roles:	Roles:	Roles:	Roles:
Office manager or Owner (Smaller)IT (Larger)C-level	Senior. Account ExecsStrategic Rel'nship Managers	Sales AdminOrder WriterBilling Rep.	 Port Out Specialist (for CS Record) CSR/LSF IT Persor
(CIO, COO, CFO) • Third party	Account Rep 1Inside Sales Rep	Customer Support Rep.Director of	Local governme"Call before you dig"

Support

Receiving

Postina

this?)

Payments

(what role does

and

IT vendor

or agent

Customer

Project

Coord.

ent re you aig Customer • Customer Project Coord (int/ext consultants or phone vendors)

Plant Roles: Roles: Roles: Roles: BU Tech Sales System Drop Crew Admins (survey) Engineer Lineman (assign IP) Switching CLEC (not Specialist Technician usually) (NS Spec) Material Engineering Network Manager Supervisor Services Materials Outside Coord / **Specialist** Records Provisioner **Specialist** Project Manager Customer Training & Support Install

Network

Services

Operations

Outside

It was a shock to senior leadership to see how many roles were involved, often overlapping or unnecessarily

Supervisor

Another fast Augmented Scope Model example

Cases:

- \$5000 \$25000 Goods
- \$25000 \$50000 Goods
- \$5000 \$25000 Services
- \$25000 \$50000 Services Assume everything <\$5000 is purchased with a PCard

This example adds detail by major Activity (or subprocess/phase/milestone)

Triggering Event:

 Customer needs Good / Service



Prepare Requisition

Evaluate Requisition

Solicit Quotes Evaluate Quotes

Source Good/Service

Award / Issue P.O.

Generate

"Transmit /

deliver" P.O.

the vendor

Purchase Order

Notify Requestor

* Pain point – we

aren't sure when

receives the P.O.

Receive & Approve Invoice

Receive

Accept

Good/Service

Good/Service

Issue invoice

(vendor)

be attached

* Invoice could

Issue Payment

Final Results:

- Customer has received Good/Service:
- Vendor has been paid
 - via A/P
 - via PCard

Develop scope of work / specs

Investigate potential vendors (and price?)

Solicit vendor quotes (just to get an idea)

Obtain approval (Department)

Verify Item and Account (General Accounting)

Submit requisition (visible to all) Confirm completeness get clarification this is actionable (scope sufficient)

Assign (or reassign Buyer as necessary)

Identify MBE/SB opportunity (competitive) (co-op) ' sole source or co-op, vendor(s) known

Determine methodology

- sole source co-operative (piggyback on contract)
- competitive emergency

Determine (additional) potential vendors

Solicit quote (including Bid Due Date)

Post quote (solicitation documents) in "the binder"

Resolve vendor queries

* Up to \$200K, we control who gets solicitations; above, no control – it's "publicly advertised."

Over \$200K there would be 20 more activities, and could be multiple award.

Receive quote (mail, fax, e-mail,

Confirm completeness

Verify suitable price, terms, and conditions (generally, low bid for equivalent)

Clarify (not negotiate) with vendor

Optional: Evaluate

equivalency (for alternate) Confirm

equivalency w. Customer

Identify vendor

Issue Payment (Magic Happens Here)

* If multiple line items, different line items could go to different vendors:

* If multiple vendors, line items are not split.

Receive invoice: · from vendor

- from the department the vendor sent it
- * Vendor complains invoice is "lost"

If >\$5000, match

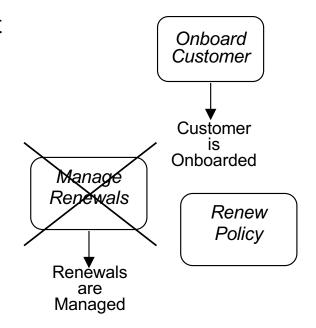
- invoice
- PO
- receiver If <\$5000, match
- invoice PO
- * Could invoice \$4K on \$40K PO

Batch invoices for GAD

Receive payment

Naming conventions will make life easier

- 1. The process name *must* indicate the expected result
 - Name potential process in "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.
 - Active verbs only: Evaluate Prospect, Onboard 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



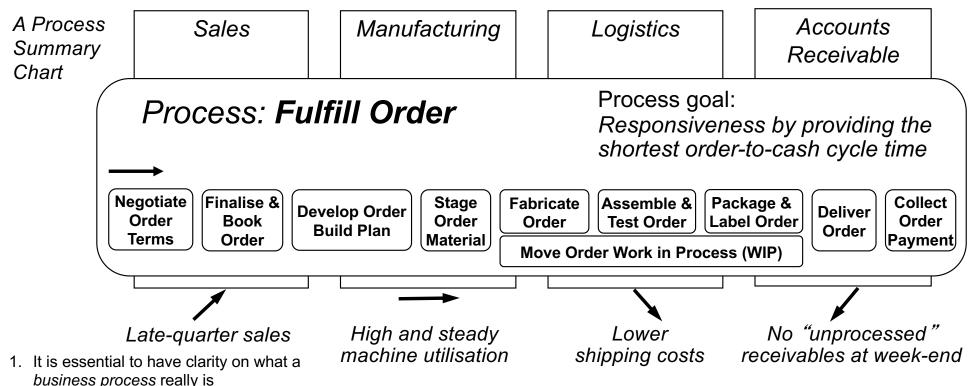


Issue Permit



Assign Worker

2. A common obstacle – misaligned performance measures



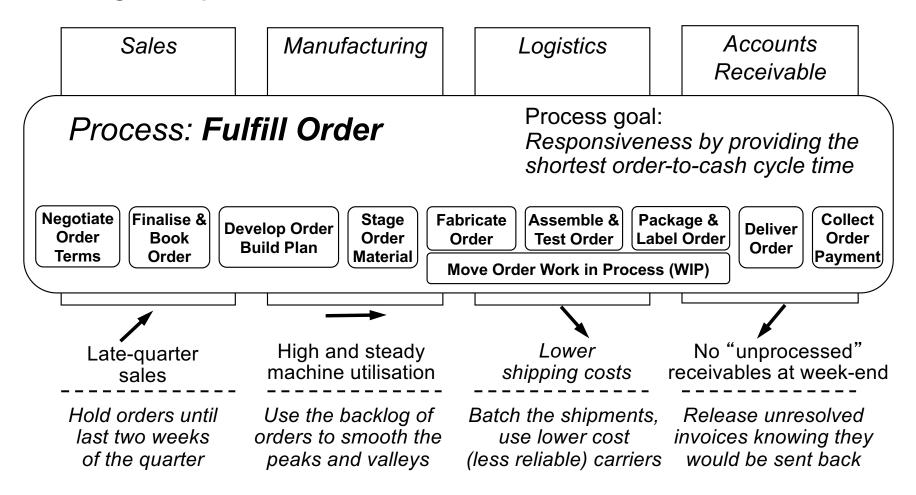
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But... performance measures were established *functionally,* before awareness of the *end-to-end process*

Discuss -

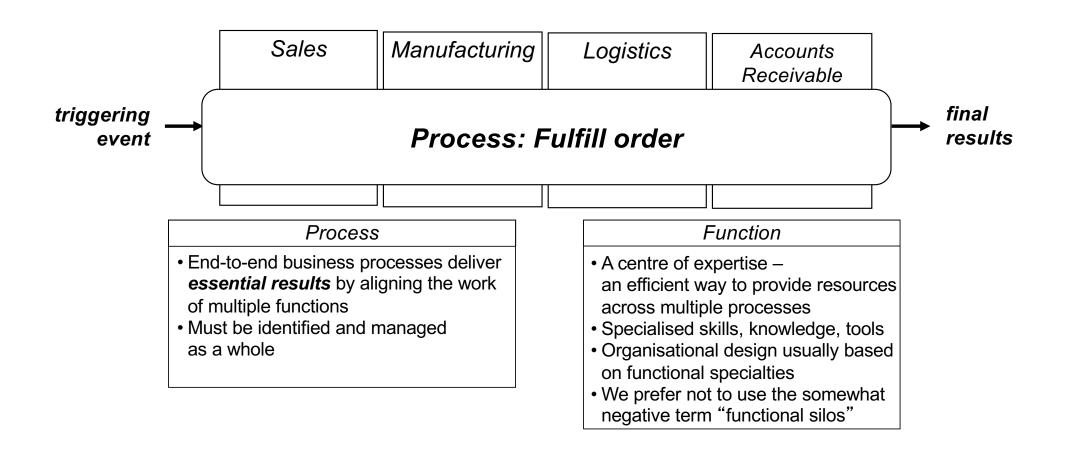
What are the likely impacts of these performance goals? What will the different functions do to meet the targets?

Misaligned performance measures



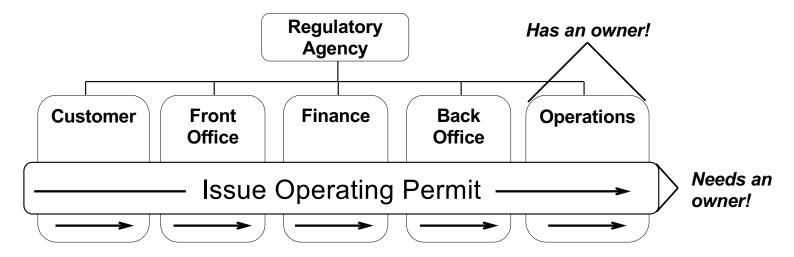
Poor performance because each function was working hard to meet uncoordinated, functional targets

This doesn't mean functions are bad!



Ultimately, business processes are all about alignment

Processes and functions – three key points



- 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

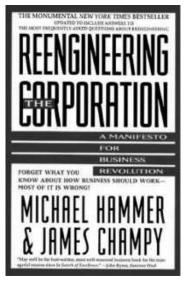
3 – Processes and information systems

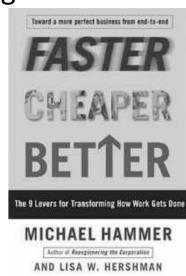
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"Success with SAP Implementation"

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





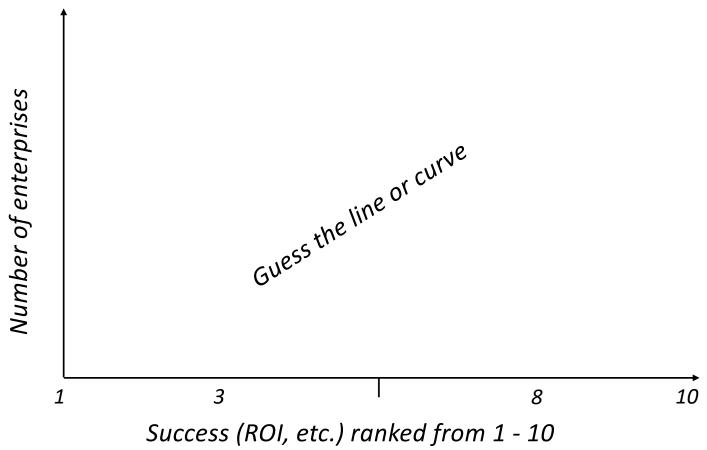


Observed that success of SAP implementations varied *wildly*

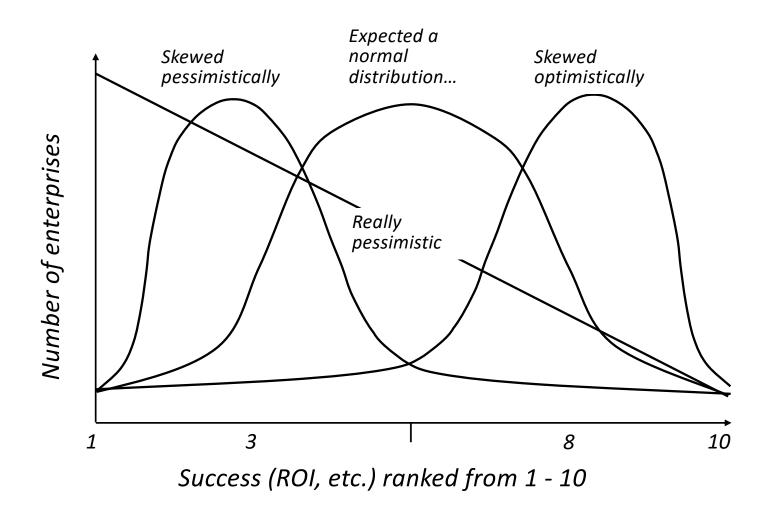
Worked with ~80 companies to assess their degree of success with SAP implementation

Success with SAP implementation

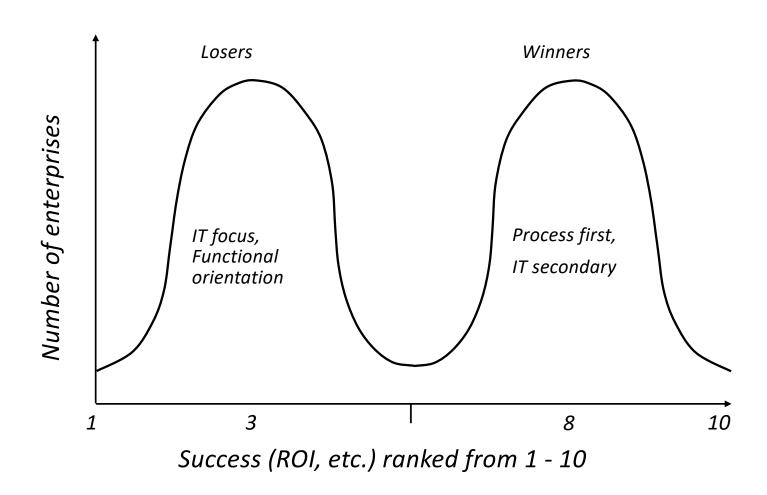
Hammer plotted the number of companies for each "success" ranking



Hammer not sure what the outcome would be



The surprising result



Returning to an earlier example

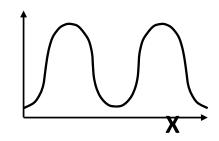
Global manufacturer implementing SAP

Four primary modules:

- Sales
- Manufacturing
- Logistics
- Finance

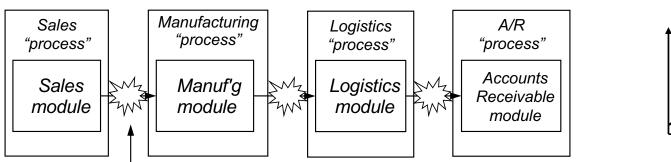
Determined to do it right:

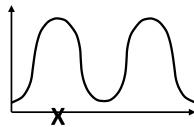
"This will be a process-oriented implementation!"



Impact of confusing function and process

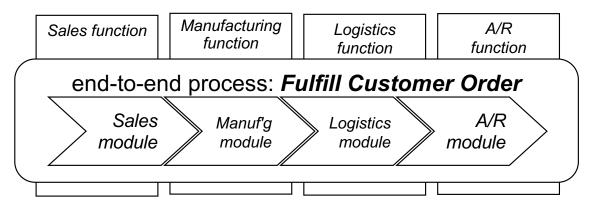
Implementing SAP without clarity on "process":

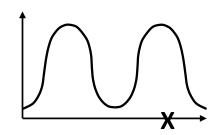




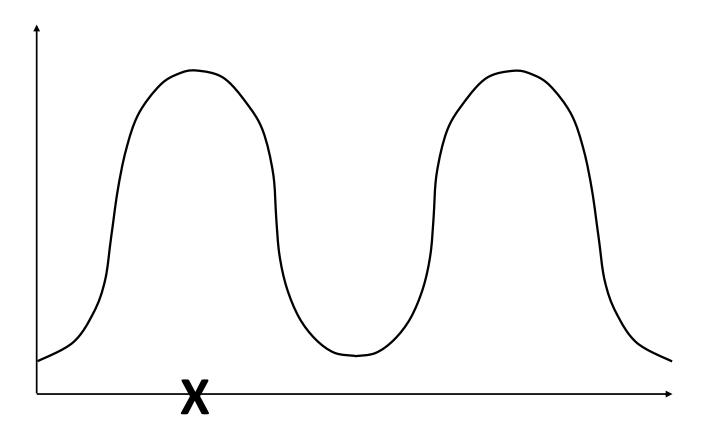
Conflicts: timing, coding, terminology, data formats, performance targets, ...

SAP re-implemented in a process-driven configuration:





Staying "right" in an "entropic" environment



There will always be a pull back towards functional comfort

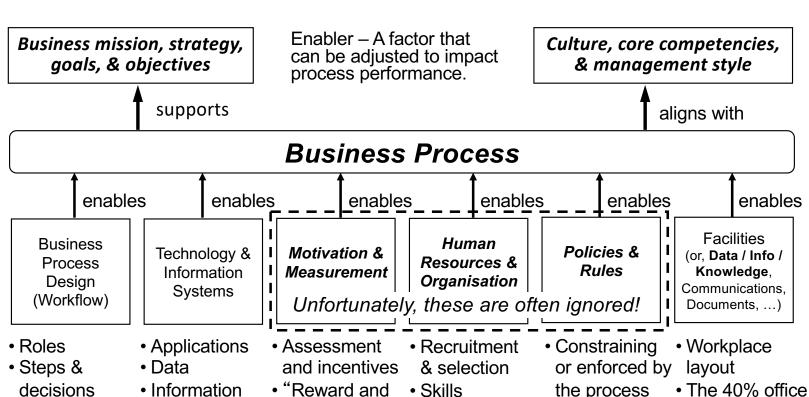
- ongoing management of the process is critical!
- all enablers must be addressed for a sustainable process

4. A holistic view for process analysis and design

- 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
- 5. A business process can't be great at everything a single differentiator must be chosen







- Flow - Integration sequence and • Devices and handoffs platforms
- Who does what when

The usual suspects!

- punishment"
- Implicit and explicit
- Process KPIs VS. **Function KPIs**
- Role design
- Organisation design
- Assignment of roles in processes
- the process
- External (laws and

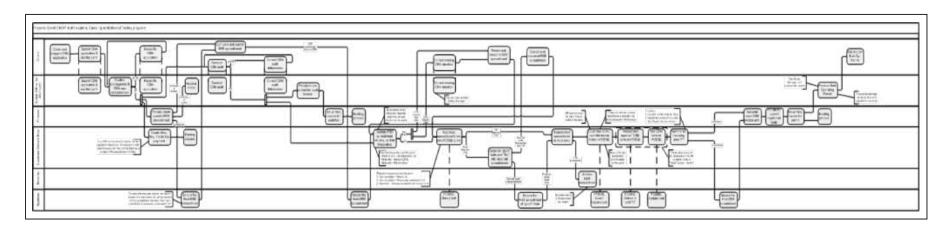
internal

- Remote hubs Equipment
- regulations) & Fixtures and furnishinas

Assess the process by each enabler – one at a time – after as-is modelling.

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

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



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

Process Workflow Design:

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, the steps, and the actors supported by the right systems and technology?

Motivation & Measurement:

How is the performance of the steps, the actors, the participating functions, and the process measured, and what are the consequences?

Human Resources & Organisation:

Are roles suitably broad, are organisations designed properly, and are roles & skills deployed well into the process?

Policies & Rules:

What policies or rules, whether internal or external, constrain or are enforced by the process, and what is their impact?

Facilities (or other):

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"

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- 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
- Develop Case for Action an As-Is Assessment by Stakeholder
- 3. Establish the *Differentiator*
- (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...

Operational

Excellence

Continuous and rapid introduction of new products and services, or changes to the mix

More flexible for adapting to needs of new offerings, but less efficient. Product
Leadership

More efficient but less flex direction of individual

Customer Intimacy

The original reference: The Discipline of Market Leaders Michael Treacy and Fred Wiersma Addison-Wesley 1995

Consistent, predictable, error-free, and efficient (or *safe*)

More efficient, but less flexible in changing direction or meeting needs of individual customers.

Tailors product or service delivery to the processes of individual customers.

More flexible for adapting to needs of individual customers, but less efficient.

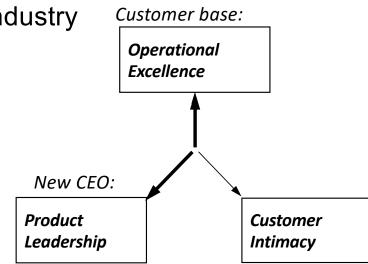
- 1. Concept developed for the entire enterprise, but excellent for individual processes a "signpost" for decisions on process changes.
- 2. Processes in an enterprise do not all have the same differentiator.
- 3. The Process Differentiator can change over time slowly!

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Example: "differentiator confusion"

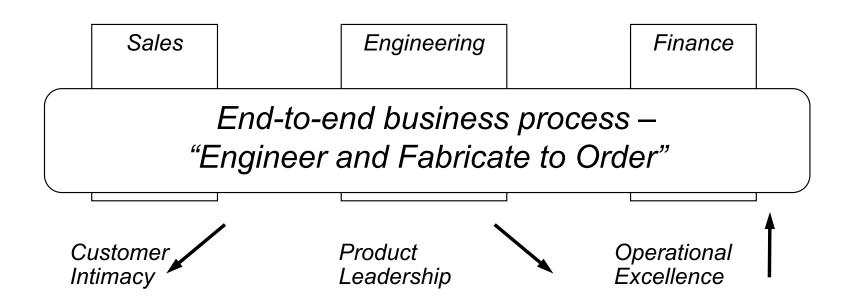
Getting it wrong can be expensive...

- 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)



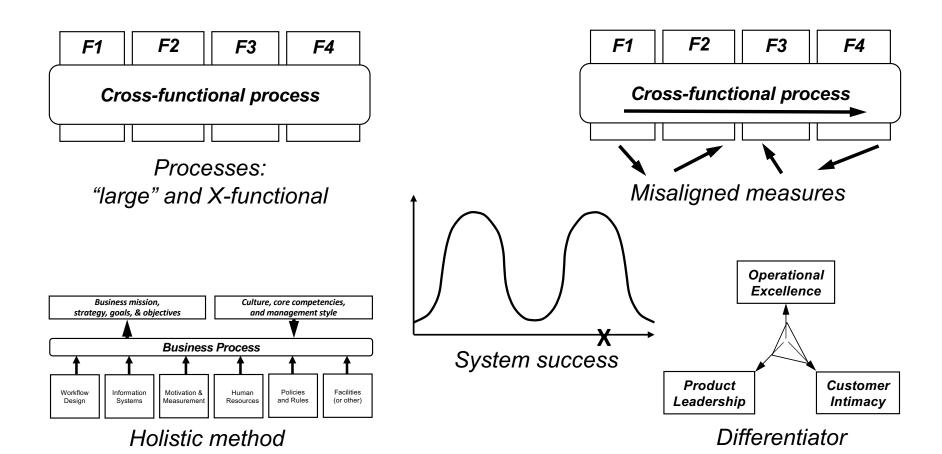
Three common differentiator problems

- 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*



Stuck in the

Five key points about Business Processes



Thanks again!



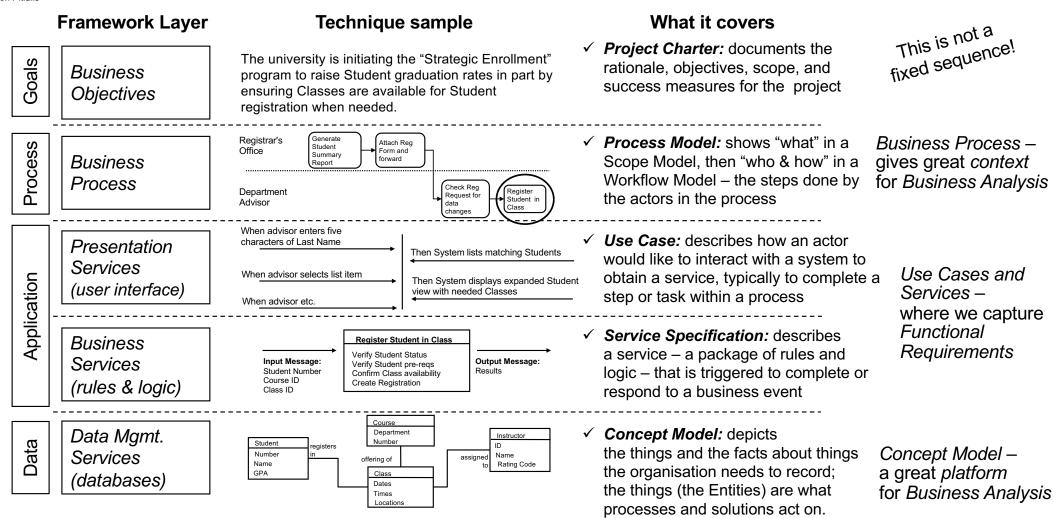
Alec Sharp, West Vancouver, BC, Canada

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

- e: asharp@clariteq.com
- t: @alecsharp
- ig: @alecsharp01
- m: +1 604 418-3352

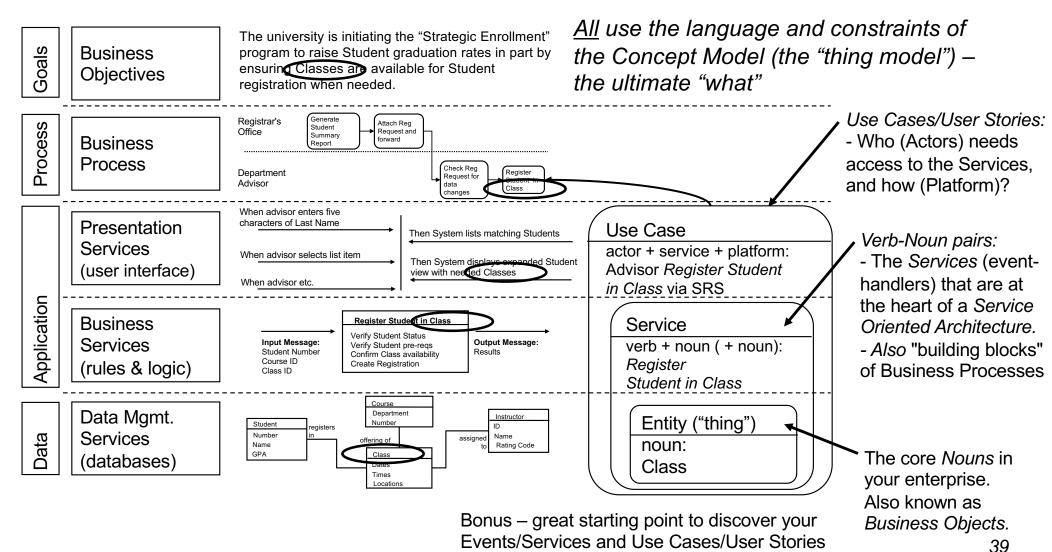
Some extras...

Business Process – part of a proven framework for Business Analysis



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

Key point! Everything relies on the concept model



Another key point! Different levels of detail for different purposes

Different models and levels of detail for different audiences and purposes.

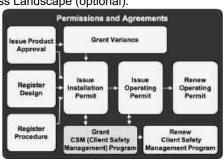
Concept – for Understanding

Also applies to Use Cases, Services, and Data Models

Detail –

for Specification

Process Landscape (optional):



Grant CSM Program

Client O Agency

CSM Authorisatio

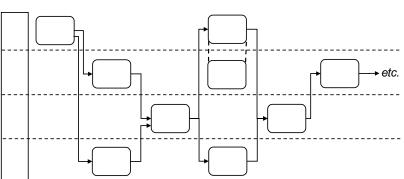
Scope -

for Planning

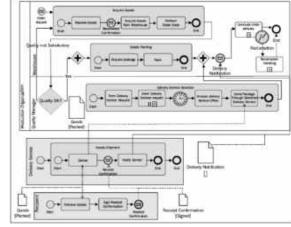
 Augmented Scope Model showing next level activities: who - what - how

 "Business-friendly" (just boxes & lines) flow models to maximise communication and participation

Two levels – Handoff and Service



 Detail for technical design, perhaps using full BPMN



Process Summary Chart:

Process Scope Model:

Boxes

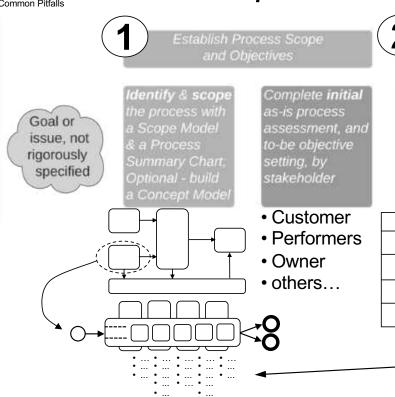
Boxes & Lines

Boxes, Lines, & MANY Symbols40

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

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

Our three-phase methodology – proven, practical, & <u>agile</u>



- ID processes & draw Process Landscape (Optional – only if you have a large scope)
- (TRAC) & draw Process Scope Model focus on what, no reference to who or how

Perform more

detailed as-is

Augmented

Optionally,

Scope Model

draw workflow

process analysis:

Understand the As-Is Process



Design the To-Be Process

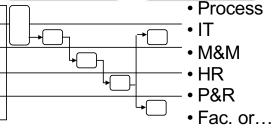
Complete final as-is process assessment by enabler, and generate to-be improvement ideas

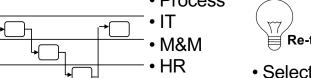
Refine to-be improvement ideas, determine 5-10 key features of the to-be process

Assess each to-be feature by enabler to determine changes to make it sustainable

Design to-be process:

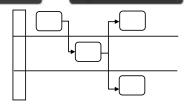
- 1 essential activities first
- 2 "who & how"
- 3 transport & protocol





Re-think!

 Select key to-be Features



- Assess each key Feature by enabler
 - Identify and sequence essential activities
 - Develop to-be Workflow Models depicting the future who and how
 - ...on to requirements definition and implementatio42

- ID Trigger, Results, main Activities, Cases
- ID involved functions & mechanisms (who and how) & draw Process Summary Chart
- Conduct stakeholder-based assessment

- Develop as-is models:
 - Augmented Scope Model add ~5 - 7 more detailed Activities for each main Activity
- (Optional) as-is Workflow Models only enough detail to understand process behaviour
- Conduct enabler-based assessment and identify potential improvements

Goal or

issue, not

rigorously

specified

Our methodology – three responses to three common difficulties

dentify & scope

Big picture first

Complete initial as-is process assessment, and to-be objective setting, by stakeholder

Don't start here!

Perform more detailed as-is process analysis: Augmented Scope Model Optionally,

Flow first, detail later

draw workflow

Understand the As-Is Process

Complete final as-is process assessment by enabler, and generate to-be improvement ideas

Refine to-be improvement

ideas, determine 5-10 key features of the to-be process

Design the To-Be Process

Assess each to-be feature by enabler to determine changes to make it sustainable

Design to-be process:

- 1 essential activities first
- 2 "who & how"
- 3 transport & protocol

1 – Premature diagnosis of the situation

My hardest assignments

2 – Failure to identify true end-to-end processes

3 – A rapid descent into unhelpful detail

Don't start with a problem statement! There will be some goal or issue, but don't formalise it **yet**. Why not? And remember... it may not be a "process" issue.

Rigorous techniques to identify real business processes – a Process Scope Model and a Process Summary Chart make scope and context visible.

Clarify the big picture, then take a controlled descent with well-defined levels of detail.

Goal or

issue, not

rigorously

specified

Our methodology – two points highlighted by clients

dentify & scope Optional - build

> Start with what

Complete initial as-is process assessment, and to-be objective setting, by stakeholder

Inclusive assessment Understand the As-Is Process

Perform more detailed as-is process analysis: Augmented Scope Model Optionally,

> Based on reality

draw workflow

Complete final as-is process assessment by enabler, and generate to-be improvement

Awareness of all factors

ideas

Design the To-Be Process

Refine to-be improvement ideas, determine 5-10 key features of the to-be process

Addresses our goals

Assess each to-be feature by enabler to determine changes to make it sustainable

We can do it!

Design to-be process:

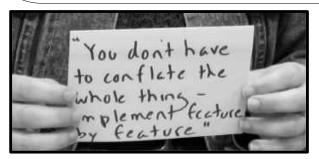
- 1 essential activities first
- 2 "who & how"
- 3 transport & protocol

Feature-based approach

Builds support for change

"We like the way support for change is built in throughout your approach, not bolted on at the end."

Not a "big bang" an effective, implementable, sustainable business process



Feature-based approach makes it Agile | iterative.

And fast! – up-front work avoids endless rehashing later