



IT Value Maximisation for Business Analysts

A Closer Look At The Elephant Part I – The Basic Principles



for IIBA UK North & Scotland

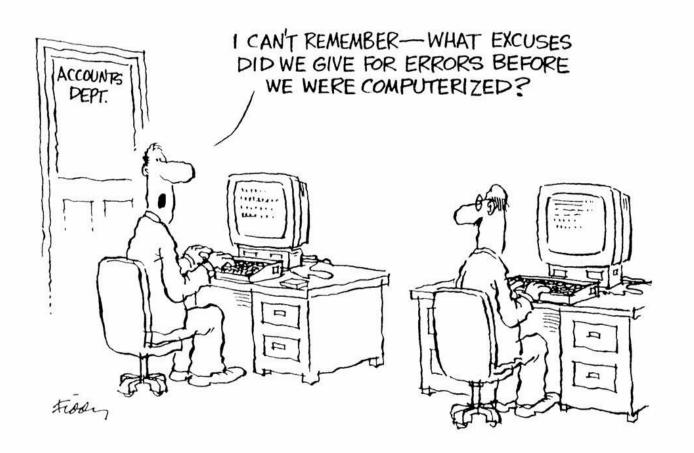
David P Jacobs BSc, MBCS, BVMS

29th August 2023











Oh dear, oh deary me...





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Agenda



Background Polls 1-3 **Deciding on best methods/approaches** The challenge/s we all face The questions we need to answer (x3 sets) The answers: What value is How value arises (at design time and run time) The ingredients of value How the ingredients work together, (poll 4) Introduction to the business value equation (BV EQ) **Poll 5: are we getting better at value maximisation? Parting thought – top challenge Contact details** Q&A

Bonus slides including Agenda for A Closer Look (Part II) in January 2024, Part III in spring 2024 and beyond...



Background



Career (day job)

1973 to 1976 BSc Hons Management Science, Warwick University Business School

1976 (1970) to 1985 marketing information analysis and research

1981 to 1997 computer analysis/programming

1997 to 2023 business analysis (with project leading/management)

R&D

1980s conceived Business Value Maximisation Framework (BVMF®) 1990s gave birth to BVMF®, first article published (1995) 2000s put BVMF® though its childhood and teens 2010-2019 matured BVMF® into the world of work... 2020 to 2023 refined BVMF® into adulthood, now growing and maturing!

The Combined Journey

70s/80s understood how organisations use business data and management information

80s started computer analysis/programming to become one of the infamous business/IT hybrids (gap bridgers)

80s/90s expanded the hybridism/gap bridging skills to be multifaceted 90s+ focused the multilingual gap bridging, a means to an end, on the end itself, the maximisation of value, success and ROI from IT and 'digital'!





Who is (most) responsible for maximising value, success and ROI from IT/'digital transformation'?





What type of result are we aiming at?

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What are the best methods/approaches for maximising business value, success and ROI from IT/'digital transformation'?





Method Selection to determine the best methods for maximising BV (Q0)

The question of whether to use waterfall, agile, wagile, V model, prince2, etc. should not be the driver, not the first question considered (it depends on a number of factors...)

A blanket approach of adoption in an org/company/business is unlikely to be optimal – <u>standardisation is rarely beneficial in net terms when</u> <u>deployed for its own sake</u>

None of the available/existing approaches/methods, used singly or in combination, vanilla or tailored, will be as optimally strong/powerful as when underpinned by the fundamental principles of (IT) business value maximisation, encapsulated by BVMF®

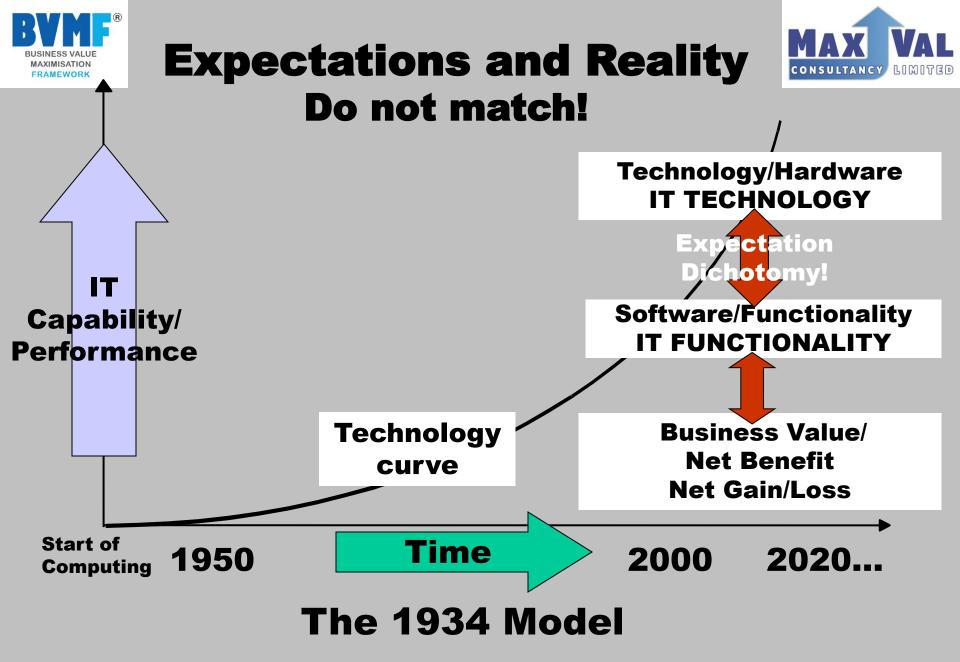


Types, Aspects & Dimensions

Landscape Value Characteristics (LVCs 1)



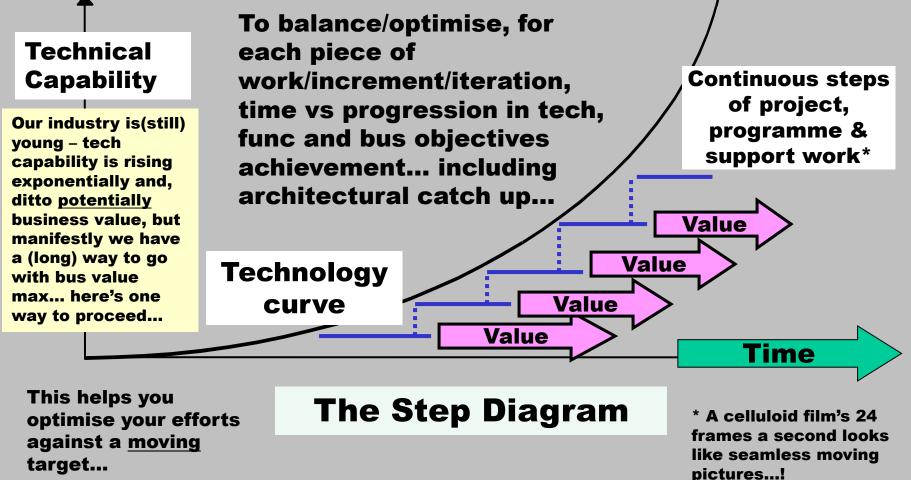
Macro/big picture/high		Mid-level	Micro/detail	/low
General/generic	;		Specific	
Predictable		Less predictable	Unpredictal	ble
Design time Predicted/expe	cted/fore	Dvt & Test time cast riteria are not by any factors for choosin	y means the	
Quantifiable Quantitative	only key mothod	s to use What type	e of are the	ble
Conceptual/ab Negative Dependent	organis bus/org Have t	persons used to do hey 'understood' wat	ing/using: erfall? Do ile? Do the	/sical ⊦, +++
Objective Absolute	thoy 'U	hey 'understood' way inderstand'/favour ag want to be familiar v aches/methods or se	vith SUCN	
Ongoing/at a po	annro	aches/method	ho	elta
Objectives part	respo	aches/methode nsibility?! What are t idencies in our work	wrt timing,	ceeded
First past the p				ب <mark>ossibly agile)</mark>
Perceived	fundi	ng, 'signing off', etc	Real/actual	
High propensity		Medium propensity	Low propen	sity
High representi	vity	Medium representivit	y Low represe	entivity







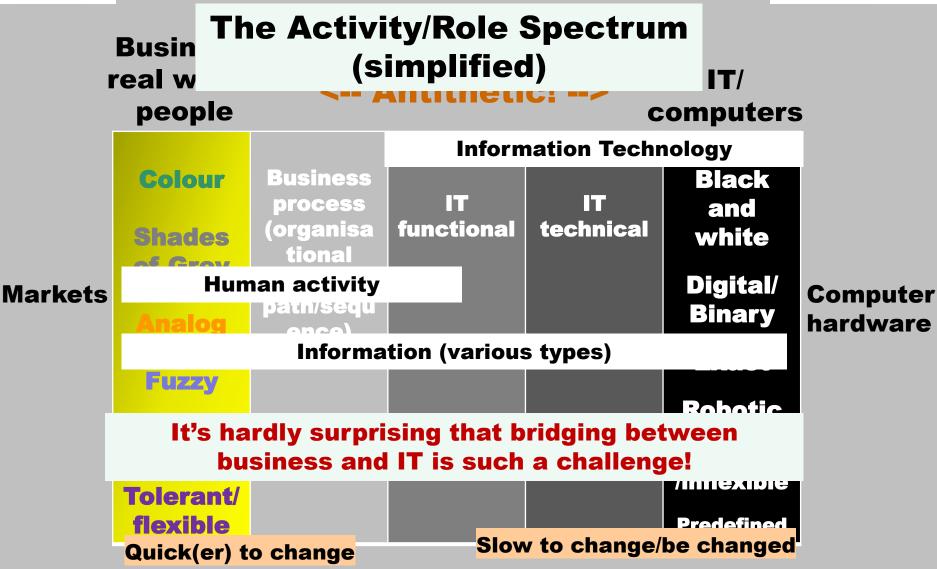
To optimise value against (high) expectations and to hit the moving target, we need to cut steps into the Technology capability (growth) curve





Bridging the Gap









The Mightily Cruel Ratio

There are very many ways to get this wrong, and only a few ways to get it right; sometimes only one!

David P Jacobs, 2022



Elephant Maxims



The IT value jig-saw has pieces missing or not fitting properly

A set of golf clubs is not the primary determinant for the golfer winning or losing the match/tournament

You would not drive your car all the way to work in reverse (although occasionally reverse gear is valid, even essential)





A.

You can't bake a great cake without knowing what kind of cake is required, what the ingredients are and how to mix and cook the ingredients optimally







If I want maximum business value (MBV)

from IT enabled process, 'digital' transformation, BAU, CI, etc.

for my stakeholders/value interested parties (VIPs)...

what do I need to focus on, think about and, most importantly, <u>do</u> ...

... practically and pragmatically?!







- What is value?
- How does value arise?
- Where will the value come from (how much is there to be had?)
- What are the elements that need to be combined (the value cake's ingredients)?
 - How best/optimally to combine the elements/ingredients?
 - How do you get more value?
 - How do you avoid getting less value?
 - How do you measure/quantify value?



Furthermore....(Qs3)



When moving from a currently manual or IT/'digitally' supported situation to a future auto-assisted one:

Will we be better off?

By <u>how much</u> will we be better off? What's the <u>likely net</u> gain – and (latterly) did we get it?

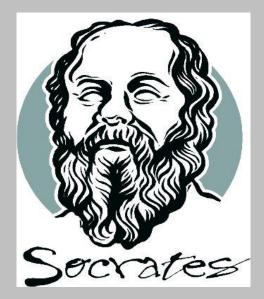
How do we <u>make sure</u> we'll be the <u>best</u> <u>off possible?</u>

How will we stay the best off possible?





Right, let's put our thinking caps on...



... factoring in some Aristotelian syllogism, a few bits of Plato's writings on Socratic Questioning and a bit of basic philosophical logic... plus 30 years of research and development coupled with first, second and third hand experience with some very good project results along the way, here we go...



What <u>is</u> Value?



The achievement/meeting of business/organisational goals, objectives and expectations of stakeholders/value interested parties (*VIPs) PLUS

The exceedance^{**} of business/organisational goals, objectives and expectations of stakeholders/value interested parties (VIPs)

* VIPs include all parties affected, involved in any way; their positions reconciled optimally

** I want to maximise the harder to predict value as well as the easier to predict value

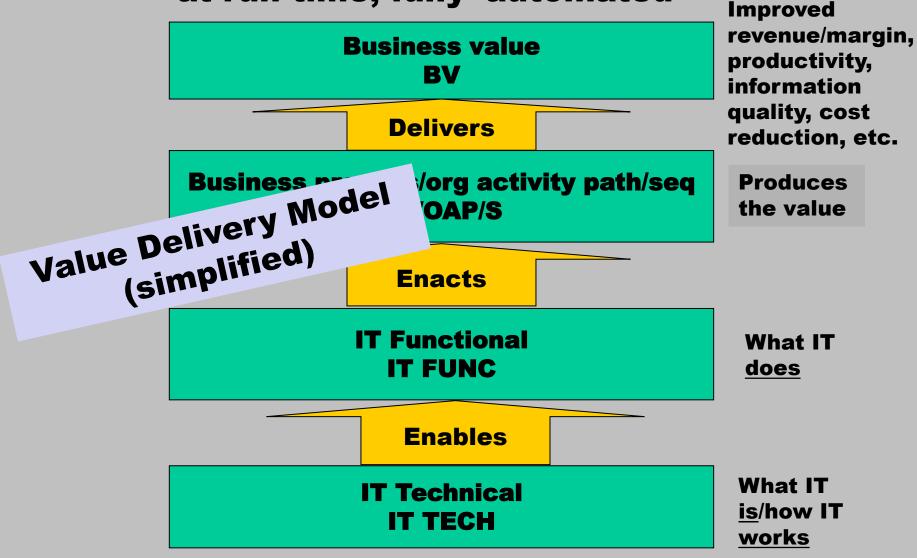
It's not easy to <u>predict all</u> value and it accrues (or gets wasted) at <u>micro</u> level – 'business cases' have tended to be "macro-assumptive" and bounded/limited ...

Value is <u>net</u> benefit – <u>all</u> tangible and less tangible costs and benefits must be factored in/weighed up - it is possible to 'equate' the two



How value arises at run-time, fully 'automated'

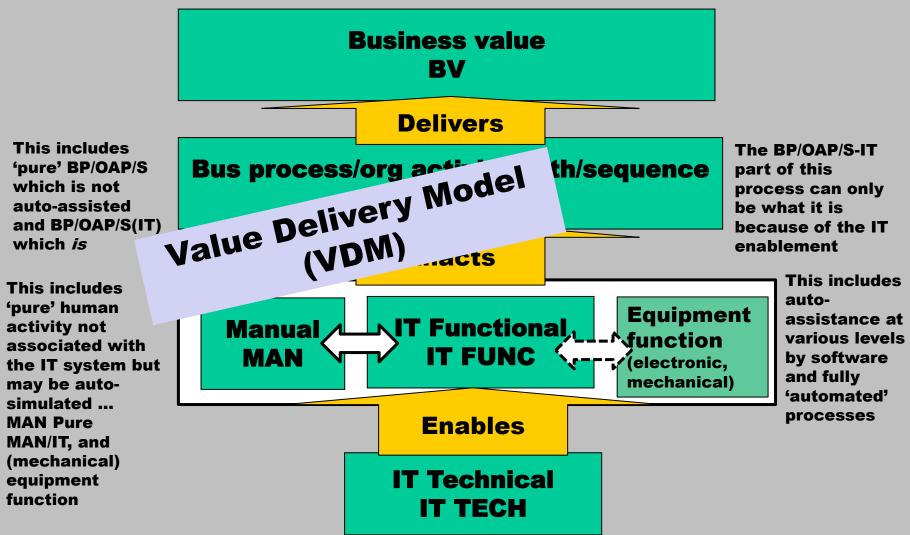






How value arises at run-time, auto-assisted

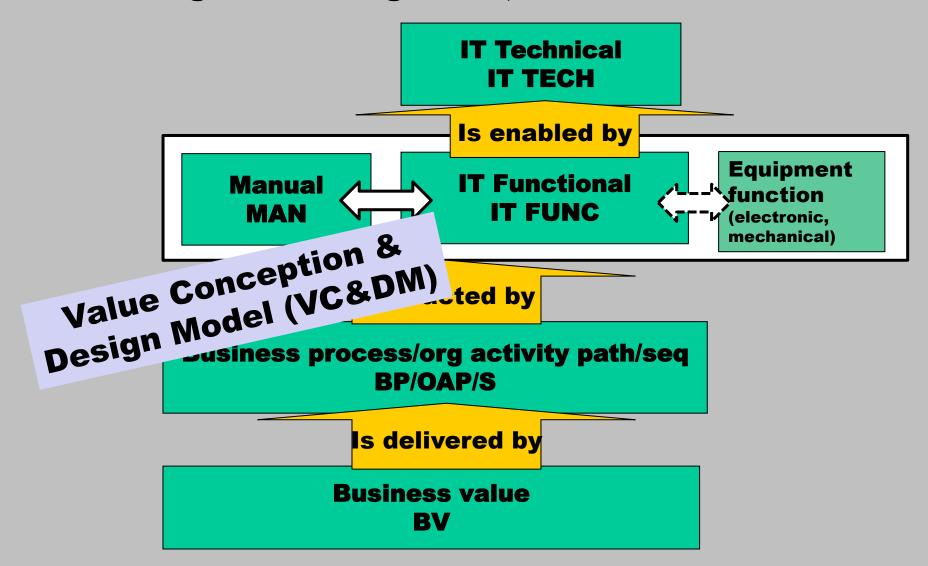






How value is conceived and designed at design time, auto-assisted







Value Conception and Design Layers of Focus (LoF)





Thanks are due to A Maslow, Cranfield University, R Wallsgrove and most brides and grooms ... Copyright © MaxVal Consultancy Ltd, 2023. All rights reserved. www.Maximum-Value.co.uk The layer cake, chain links, dependent jigsaw pieces...



Where will our value come from? What will the ingredients be? How much value can we get from each ingredient, i.e., what's the Propensity?*



Ingredient description Business process/org	Ingredient nam	<u>% of total</u> value to be <u>realised*</u>
activity path/seq (incl. creation	BP/OAP/S	25?
and use of information INFO) Human Origins of Value, Ingre and Propensity	edients ,	10? 10?
IT fi	IT FUNC	25?
IT technicality/technology	ІТ ТЕСН	10?
Morale, PR, image, reputation, goodwill, perception, kudos, prestige, motivation (less tangible)	MISC	5?
Cost (£s absolute/reduction delta)	COST	15?

* These value ingredients are not completely mutually exclusive; it depends how you look at them... also we must factor in mechanical equipment's (non-IT'd) functionality ...





Estimating the Power of Re/'Automation' What do we expect the value of 'IT FUNC(-N)' to be?

I.e., how much value (uplift in bus process/org act path/sequence performance) do we expect to get?

In an averagely worthwhile, acceptably successful project, to what extent do we (expect to) boost the reengineered business process's ability to do its job by using (improved) 'automation'... as a starting point/general guideline, consider projects over the last 20 years...

What is the general number? What do we want *our* number to be – on our specific project/s? How will we get there? +10% (*1.1) +25% (*1.25) +50% (*1.5) +75% (*1.75) +100% (*2.0) +0ther?

Poll 4

(Will we be faster, more accurate, better quality, more available/accessible/ centralised? Are we prepared for the negatives as one <u>tiny</u> fault can cause huge damage? And wrt visibility, computerised functionality (and errors) can be harder to see for the humans involved...)

Answers to this will be revealed in a future presentation ...





Introduction to the Business Value Equation (BV EQ)





How much better off do we expect to be? The Business Value Equation (1)

Net Business Gain (or Loss) is/will be proportional to the Performance of the **Reengineered/Reviewed Business Process/Org Activity Path/Sequence** as helped (or hindered) by the **IT Functionality** as supported (or degraded) by the **IT Technicality/Technology** plus (or minus) a miscellaneous element of Image, Morale, Reputation, etc... ...all subject to Cost



The Business Value Equation (2)



This combines the value factors (ingredients) together *numerically* to show how much value we <u>expect</u> to achieve (at design time) and <u>do</u> achieve (at run time) <u>and</u> ... how very **easy** it is to do more harm than good!

We have:

Net Business Gain/Loss (NBG/L) is proportional to the power of the reengineered business process/org activity path/sequence (BP/OAP/S-R/A) as boosted (or hindered) by IT functionality (IT FUNC) as enabled (or degraded) by IT technicality (IT TECH) plus or minus less tangible/qualitative factors (MISC) all minus cost (COST) Prediction and verification of two by process and sub-process

Symbolically:

NBG/L \propto BP/OAP/S(R/A) * (IT FUNC * IT TECH) +- MISC - COST

Terms: R=reengineered/reviewed/redesigned, A=auto-assisted/'automated' Value = *net* benefit/gain, ISBV = Information Systems Business Value Gross (theoretical) ISBV = IT FUNC, Net (Actual) ISBV = IT FUNC * IT TECH IT Effectiveness/performance for IT TECH = Uptime * Efficiency/Effectiveness, e.g., 90% up * 90% efficient/effective = 81%...

Assess absolute/ongoing value (at T0/1) or incremental value (from T0/1 to T1/2, or from T{N} to T{N}+1) against the 4 stages of business process:

1 Manual [20] > 2 Reengineered (purely manual) [25] > 3 Reengineered (aware IT will be used, data centralised, etc) [30] > 4 Auto-assisted (sped up, more reliable, etc) [40]...





How much better do you think you've become over the last 45 minutes at understanding, identifying and manifesting IT business value?

Much better

Somewhat better

A little better

Same/No better

Worse

Other/specify in Chat

Don't Know





Parting Thought (for Q&A, etc)

What is your (remaining/outstanding) top challenge in respect of maximising business value, success and ROI from IT?

To gain optimum value, success and ROI from digital transformation, BAU, CI and all IT/software supported org/bus activities





Thank you for listening

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The bonus slides that follow include more detail on today's models and techniques, some 'upfront' on models and techniques to be covered in Part II (January), Part III (spring 2024) and beyond, and a list of MaxVal's services...



Agenda for 'A Closer Look, Parts II & III' coming in January and spring 2024...



Name	Function		
Business Value Equation (part II)	Helps you to see how the Value Ingredients (VIs) work with each and combine to produce value. Shows you the stark reality of how easy it is for your IT systems to bring your org/bus to its knees and how hard it is to have it all singing a fabulous song (you CAN do it as long as you underpin your work with some principles of IT bus val max		
Conceptual Units of Benefit (CUB) Ladder™	If you're using MoSCoW, this will enhance the socks off your 'requirements'/functions prioritisation with its powerful component relationship segmentation and value tagging (VT)		
Football Team Management (FTM)/Optimal Human-Computer Interaction/Interplay (OH-CI)	Helps you formulate the most powerful football team to play the game with an optimally blended set of players, some human, some computers (robots, i.e., computerised players)		
Business Practice and Contingency (BP&C)	Makes sure, at Run time, all your hard work pays off. I.e., that IT systems do not, at run time, degrade your business processes rather than enhancing them; it's very easy to ruin your business with IT that doesn't work		
Crossword Diagram	A model for decompositional analysis of manifest value/success that's supports you in divining where the IT systems are better than they were and where they are not so you can fix and/or improv them. A great way to structure and progress CI.		
Various key concepts like Two Node Factors such as Push/Pull (P/P), Macro/Micro, On-point/Incremental value, etc. Plus approaches to effective value analysis like The Six Factor Cadence, The Croydon Facelift, etc.	There are plenty of two node concepts in BVMF® and here we look at the main ones. Macro->Micro, Design time->Run time, Functional- >Technical, Estimated-> Actual, etc. Also, some techniques for effective analysis and communication.		
Introduction to the systematic application and assessment of value using BVMF®	The IT Effectiveness Spectrum [™] as a tool to assessing IT Business Value Capability (ITBVC) [™] and planning to improve it		





To optimise the value of each STEP in the Step Diagram

Decide for each STEP how high you will shoot for technical, functional and process improvement – and how long the STEP will be. It's not about Waterfall, Agile or a hybrid approach; it's about continuous progress. For example, <u>are you in a business marketplace</u> where first past the post applies, or, where a more proportional reward system applies? What time scales are required? What time scales are required? Waterfall <-> Agile is a <u>spectrum</u> and each piece of work may be different in this respect

Use the Value Landscape Characteristics (LVCs) to help decide which approach will be best for a given piece of work



Types, Aspects & Dimensions Value Landscape Characteristics (LVCs 2)



Types, Dimensions and Characteristics (Measures) of Value

These measures/criteria can be used to assess the business value landscape i.e., the environment/backdrop in/against which a decision is to be made as to what blend of agile, waterfall, etc is most appropriate for a specific piece of work.

Measure title	Left side measure/s	Mid-range measure/s	Right side measure/s	Notes BVMF® Models	
Macro/micro	Macro (big picture/high level)	Connecting factors	Micro (detail/low level)	Macro value (too) often disappears as micro design and implementation swings into action	
Specificity	General/generic		Specific		
Predictability	Predictable	Less predictable	Unpredictable		
'Lifecycle' stage	Design time	Development & Test time	Run time	Design time value is a prediction, run time value is an actuality	
Predictability	Predicted/expected/forecast	Estimated	Actual		
Tangibility	Tangible	Less tangible	Intangible		
Quantifiability	Quantifiable	Less quantifiable	Unquantifiable	You can invariably 'put a handle' on	
Quantity vs quality	Quantitative	'Handled' (qualitative 'quantified')	Qualitative	qualitative or so called unquantifiable. For example, Crossword <u>Model[™]</u> (uses <u>3 & 5</u> point scales from worse to better)	
Physicality	Conceptual/abstract/logical		Concrete/physical		
Conceptual Units of Benefit (CUB) Spectrum	Negative	Null/Zero -> Hygiene	Positive +, ++, +++ (low to high)	Conceptual Units of Benefit (CUB) Ladder™	
Dependency	Dependent	Less dependent	Independent		
Objectivity	Objective		Subjective		
This, that or one to the other	Absolute		Comparative		
Now, then, change	Ongoing/at a point in time		Incremental/delta	Are you looking at value now, then or at the delta/magnitude of the change?	
Achievement of objectives	Objectives part met	Objectives Met	Objectives exceeded		
First or proportional	First past the post ('waterfall'), winner takes all	Combination of winner takes all and proportional	Proportional ('agile')	Possibly the most important determining factor	
Perception vs Actuality	Perceived		Real/actual	_	
Propensity	High propensity	Medium propensity	Low propensity	The degree of scope for value to be created	
Representivity	High representivity	Medium representivity	Low representivity	Representivity [™]	
Granularity	High level of granularity ('agile')	Medium granularity (Blend)	Low granularity ('waterfall')	1934 Model/Step Diagram™	



Who is Business Value Maximisation Framework (BVMF®) for?



Who is responsible for maximising value?

Business Analysts (BAs)? Project Managers (PMs)? Product Owners (POs)? Product Managers (PMs)?

Actually, <u>anyone interested and involved in gaining *much* <u>more value from IT, digital transformation, i.e.</u>, business analysts, project managers, product owners, portfolio managers, programme managers, IT managers, IT directors, senior developers/technicians, CIOs (misnomer?), CxOs, business SMEs/secondees, business change/organisational design managers, relationship managers, etc.</u>

Business value maximisation specialists (BVMSs) working with BVMF[®] can help us all how to work together in this endeavour to engender MBV



MaxVal's Services



Service	Status	Chargeable
Introduction to Business Value Maximisation Framework (BVMF®)	Available	N
Value Clinic (60 minutes) with basic IT BV Capability Assessment	Available	N
Business Analysis primer (recap on basic BA skills)	Available	Y
Foundation training in BVMF® (15 hrs, certification as BVMS)	Available	Y
Intermediate training in BVMF®	Under development	N/a Ad hoc
Advanced training in BVMF®	Under development	N/a Ad hoc
Consultancy (supported by Do IT Better Consortium) with/out BVMF®	Available	Y
Value based career coaching and mentoring	Available	Y



Further analysis of 'The challenge'



VISIBLE	LESS VISIBLE
Human Beings	IT/Computer Systems
Instantly flexible/changeable/updateable	Takes hours, days, weeks, months, years to change
Penetrable	Im/less penetrable
Complexly 'layered' with almost infinite dimensions to thinking and working	Multi layered
Can change t(r)ack in a microsecond; can change the question, paradigm, etc	Predefined to ask the questions based on X Y Z will never happen or X Y Z may happen under P Q R circumstances
Conscious – has sense of 'sanity', what's likely and what's not likely	Not conscious.
	Has no innate sense of sanity/common sense; only does what it's programmed to do – to follow predefined paths/sequences. Can be made to
	simulate consciousness and sanity but it's a repeatable procedure. This can
	have great positive value to save humans crunching billions of gigabytes of
	data – like Al for example
Is reality.	Simulates reality (depending on Representivity (REPR) i.e., application area)
Has perceived reality and actual reality in contention.	- is artificial depending on REPR i.e., background and frontline REPR
Has emotion and logic often in contention	
Reasons (with the rational part of brain)	Can be programmed to 'reason' but it's a simulation/emulation
Feels (with the emotional part of brain)	Doesn't feel – if your bank debits you £1million instead of £1 the computer
	system will only pick that up if it's been programmed to do so, to keep an
	eye on range of txns. If not, the £1billion will 'happily' go thru until a human
	being notices it. This is where BVMF [®] 's FTM/OH-CI module comes in useful.
Can <u>tell</u> you what's wrong (if you ask the right question)	Reverse engineering invariably required to work thru the less/invisibility,
	impenetrability factor/s and the hard-to-see complex layering
Processes thoughts simultaneously in a myriad of ways, directions,	Crunches (lots of) numbers very fast to simulate certain aspects of
intensities, etc	reasoning, artificially



The Six Factor Cadence



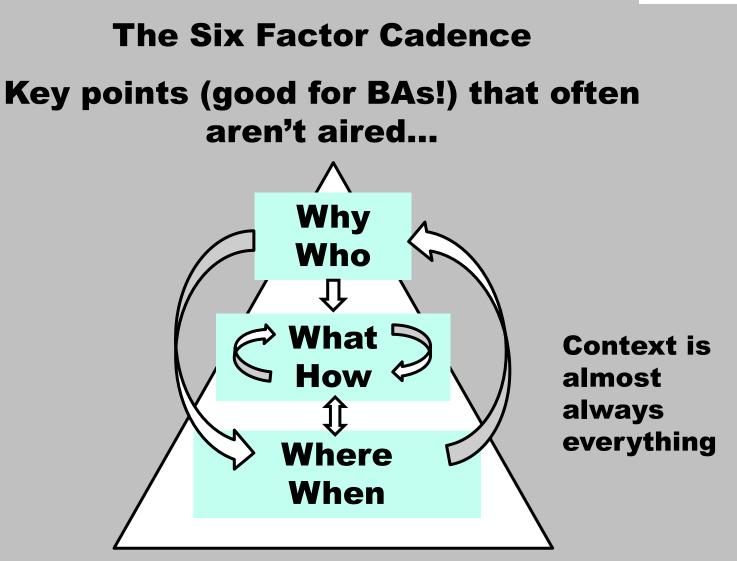
Why /	Along with the Why, one must consider the Who, especially on business
Why /	IT projects because people involved have different perspectives and desires and you need to reconcile these two factors, or you can end up with more contention than you started with!
What	Next comes the What. What you need to do to bring about the vison, objectives of the project.
How	After the What, comes the How. Interestingly, when I have experimented with examples of what and how, I have seen that there is a recursive hierarchy present. I.e., every What has associated with it at least one How, sometimes more. And then, each of those component Hows forms a What to another set of Hows lower down the hierarchy. What and How are slightly similar but subtly different i.e., from the above we could conclude that a How is (just) the detail of its prefatory What maybe not always but extremely often it seems.
When / Where	 These two may be important and can certainly make or break a project or exercise but are possibly not as critical as the why/who/what/how. However, never say never (as the Sean Connery film was entitled in 1983 in his James Bond comeback, admittedly with an Again on the end of the Never Say Never). So, anyway, don't underestimate the value of
	when and where!

Recently published in Brainz Digital Magazine as part of article <u>www.brainzmagazine.com/post/riding-the-storm-of-scepticism-and-apathy-</u> for-innovators-entrepreneurs-and-pioneers-part-iii

To see more of my Brainz articles, click <u>Read more from David!</u> and scroll down. The first 'Riding The Storm' article (of 3) tells the story of my journey to develop BVMF® at <u>Riding The Storm of Scepticism and Apathy for Innovators, Entrepreneurs and Pioneers</u>









Pros and Cons of Methods



Method	Pros	Cons	Notes	
Waterfall	Predetermination is good. Leaf level process model plus data model plus glossary provide value	Slow to deploy value. <mark>Not the whole story</mark>	* Elephant missing BPR implicit	
Agile	More business focused	** Promotes that working software is the objective veering away from real BV	It's not the software that produces the value! Golf clubs don't play themselves	
*Elephant = the fundamental, underlying principles by which IT leads to business value	More collaborative	Knee jerk reaction to waterfall. Confusing terms: product, 'requirement', feature user stories not clear on the ingredients of value	Confused team structure and roles: PO (no BA!), Prod Mgr, etc. Hypocritical on outcome vs output; 15k to 136k deployments at Amazon	
**Explicit/deliberate/ active obfuscation vs	More granular	Not the whole story	* Elephant missing	
Implicit/incidental/pass ive inference/implication/	More responsive to changing requirements	Lost some of the con/sequential logic of waterfall	Threw the baby out with the bath water	
effect	Handles emergence 'better'	Emergence is only valid in certain situations	BVMF's Value Landscapes help evaluate best methods	
Wagile/hybrid/blended	Good compromise, more realistic	Not the whole story	* Elephant missing	
Prince2, BRM, MSP, MoV, BABOK, etc	They are trying to bring a logical approach	Not the whole story	* Elephant missing	
UML/Use Cases	Better on interplay between human beings and IT func	Not the whole story	* Elephant missing Human/system interplay ok	



A few more of BVMF® models, concepts and techniques...



Name	Function	Status
Representivity	Correspondence/alignment between real world process and data and how appropriately they are represented in an IT system	Foundation and Intermediate training
Predefinition, currency/changeability and control (P, C/C & C)	Degree of control a user has within a given time scale, including immediacy of mutual communication (IOMC)	Under development
Sole working vs team sizes	Optimisation of the balance between the single mind and larger teams	Under development
The IT Effectiveness Programme	Systematic way to improve value maximisation capability using the IT Effectiveness Spectrum assessment tool	Intermediate/Advanced
Assess, Boost, Check (ABC)	Way to boost value when it threatens to falter; works in conjunction with Crossword Diagram	Foundation
Croydon Facelift	Optimised way to work and communicate with users/SMEs and other involved parties	Drafted, under trial
Functional Creativity	To help the business community to envisage required IT functionality	Foundation
Taking the Rap	To help business managers avoid surreptitious inclusion of work practices into new systems	Foundation/Intermediate
Value focused 'requirements' definition	To develop atomic, value focused 'requirements' for each value ingredient	Foundation/Intermediate
Specific terminology definition	Yield more value from accurate terms definition with glossaries that equate business and IT terminology	Foundation



The Business Value Equation (3)



Example Based on Predicted and Actual Output, at Design and Run time

The existing business process (BP/OAP/S-0) is outputting 25 widgets a day; when reengineered (BP/OAP/S-R), it outputs 30 widgets a day

Now, when 're/automated' (to **BP/OAP/S-RA**), the business process's output will be equal to:

The output of the existing reengineered business process $\ensuremath{\text{BP/OAP/S-R}}$ at $\ensuremath{\textbf{30}}$ widgets

As boosted (or hindered) by the new IT functionality IT FUNC-N i.e., 30 * the IT functional boost factor (expressed as N.NNN), e.g., 30 * 1.333 = 40

As supported/enabled (or degraded) by the new IT technicality IT TECH-N i.e., * 100% at full tilt (more likely to be 90% efficiency for 90% of the time i.e., 81%)

So, the equation we are looking at is: 30 * 1.333 = 40 * 81% = 32 ...

The new level of 're/automated' output (BP/OAP/S-RA) = BP/OAP/S-R * (IT FUNC-N * IT TECH-N)

...we will ignore the other ingredients (MAN), MISC and COST for the time being...

Given that we are now outputting 30 widgets a week in our newly reengineered process, and we assume that IT-TECH-N will be 100% (is that realistic?) ... how much good will we do by introducing or upgrading the 'automation' of this process?



Transforming Output into Net Business Gain/Loss (BV EQ 4)



Process	Initial widgets output/ volume	IT FUNC- N * N.NNN	IT TECH-N * NNN%	Resultant output	Net Business Gain/Loss over BP/OAP/S-R	% Gain/ Loss over BP/OAP/S-R
BP/OAP/S-0 un-reengineered process	25			25	P/OAP/S will r	nuch depend on ition'
BP/OAP/S-0 25 25 un-reengineered process 30 BP/OAP/S-R 30 IT TECH) on the BP/OAP/S will much depend on the degree and nature of the existing and incoming 'automation' The transmission effect of (IT FUNC * IT TECH) on the existing and incoming 'automation' The degree and nature of the existing and incoming 'automation' Output can be calculated into revenue or profit so ROI can be calculated, i.e., net business gain in monetary terms Business gain in monetary terms Make these calculations at Design time, Test time, Run time, etc. Make these calculations at Design time on the 'project' plan it's the project or sprint's						
Output can be businee of businees of bus						
your i	improved 30	BP/OAP/S 1	81	36.5	6.5	<u>ever</u> was!) +21.7%
Includes less predictable/exceed expectations output			•		d COST into acc by COST, get to	



The Business Value Equation (5)



Considerations

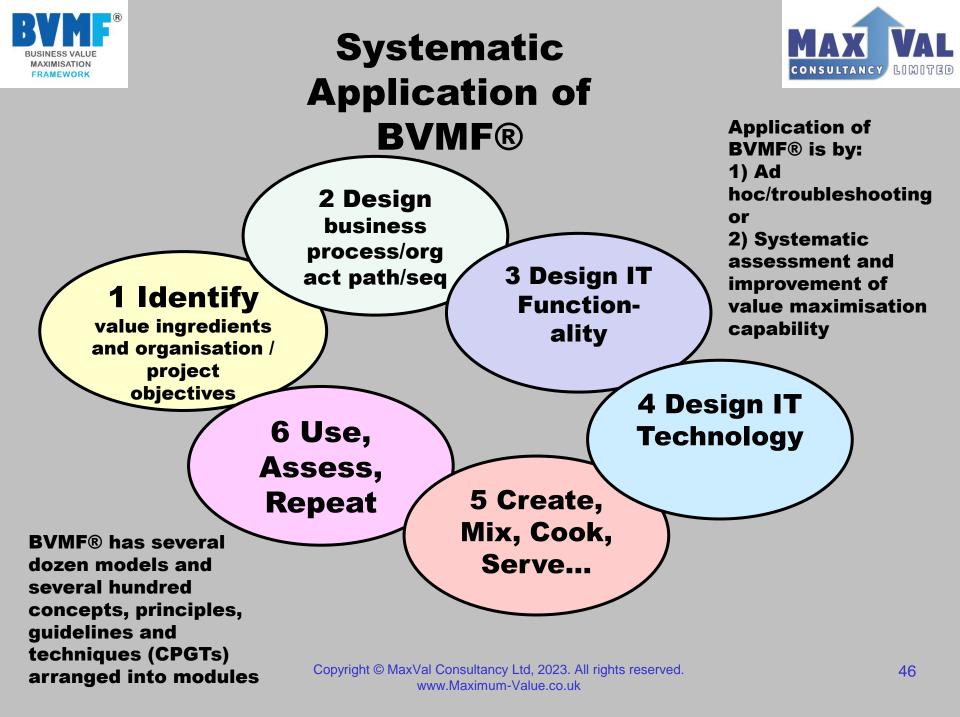
Be aware whether you're measuring delta/change value or absolute/ongoing value... i.e. the incremental value of moving from T1 to T2, say from 30 to 40 widgets a week at a unit cost of £5 down to £4.50, or the ongoing value of 40 widgets a week at a unit cost of £4.50...

We assume here that the <u>full</u> effect of IT FUNC operates on BP/OAP boosting (or hindering) it. Depending on the degree and nature of any 'automation' <u>the effect of IT FUNC will typically not be 100%</u> but may be 85% for example...

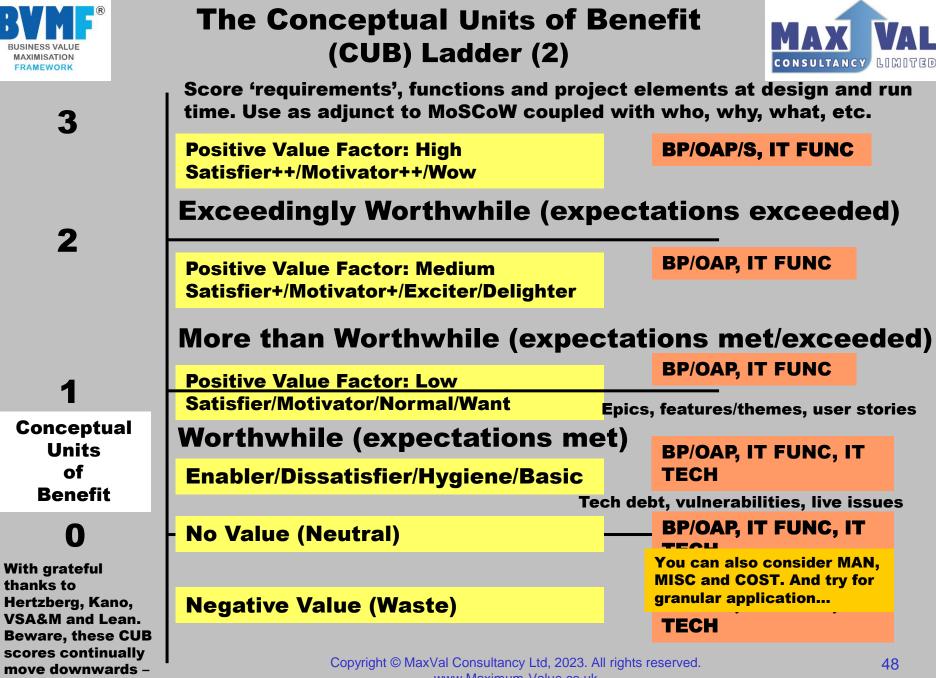
Successive releases of business process and IT systems include changes to processes (BP/OAP/Ss) <u>and</u> IT systems and so <mark>some value gains will be</mark> due to pure process (BP/OAP/S) upgrade irrespective of any improvement in IT FUNC

What we want/expect from IT FUNC and what we get are two different things, usually! Design time expectations may not be realised at Run time

You will likely struggle to apply this equation at a <u>fully granular</u> level (you can work down from high level process all the way to function, screen and even field level, in theory) but doing it at a sensible level will invariably yield great dividends in Business Value



	The Conceptual Units of What degree of value can we ex lement, sprint, etc; at best, and "requirements" or project com	pect at w	t from each pro vorst? How do t	ject, project the functions,
2	Higher echelons of value Sig Bus Positive Value High	th ed	Unlimited Value	What we're aiming at!
1	Continuing improvement <u>Positive Value Mediur</u>		Better Value	Worth
Conceptual Units	Users 'satisfied, acceptab Cost (containment'	le R	OI' Limited	doing, some benefit
of Benefit	Imp Positive Value Low Traditional 'automation' Software/project 'success		Value	
0	Housekeeping/ Fu Basics	— 5	Hygiene	Running to stand still,
	Technical Hygiene factors So Infrastructure		value Little	negligible positive
-N	Technical patches Ne Connectivity Virus controι		value Damage!	benefit



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sad fact of life!

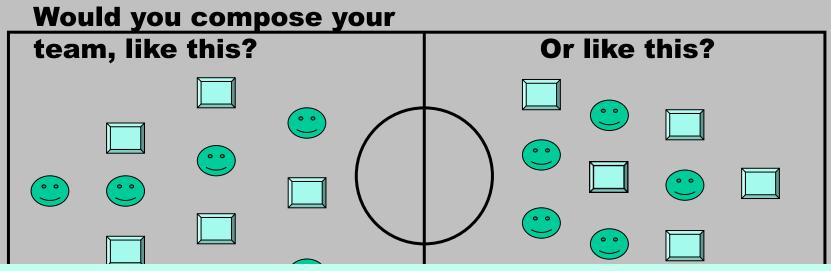


Optimal Human-Computer Interaction Using "Football Team Management"



to balance our team for maximum performance

Value arises from the <u>combined</u> strength of the players...



BVMF® has a variety of models and techniques to help address this challenge including Interfacial Sins Avoidance (ISA), macro to micro correspondence (MTMC), value focused functional design (VFFD), etc...

Boeing did this very badly with their 737 Max MCAS system. Pilots and system were NOT blended together in an effective fashion. Pilots were not properly trained, and the ball (of control) could not be passed from system to human effectively at the crucial (run) time when human override was required. Sadly, 346 people died.



Sins Avoidance (FTM 2)



To Avoid Value Loss at Micro Level (micro value must play out macro value or (too much) value will be squandered)

- Don't force the user to enter incorrect information e.g., displaying mandatory drop-down lists where no one value is the one the user requires! Ask the right questions.
- Don't wipe the user's data the user a whole screen of information and hit ROUGH! or/s are flagged up (user may need to screen THR and them) and most or all of their data has THINK ou out or altered
- Don't m care user guess; be specific e.g. tell them the required form of an entry before input, rather than highlighting an error after it has occurred (did Boeing make the 737 Max pilots guess?!) Avoid conflation with
- On a brighter note, a great example of how to do it is the Royal Mail's post code finder – it's a joy!

Be clear what info you ask for, what you will do with it and help the user to be confident you will use it constructively



IT is potentially highly dangerous... the more you 'automate' the more damage occurs when things go wrong, as they often do! Many organisations still don't get this.

In 2017, British Airways cancelled 726 flights when their check-in system failed – there was nothing wrong with the planes! Cost £80m.

In 2018, a report said, **"TSB lacked** common sense before its IT meltdown". Cost £100m.

From 1999 to 2020, the Post Office persecuted and jailed many of its sub-postmasters for fraud which turned out to be the fault of its Horizon IT system. Cost £100m.

Business Practice and Contingency (BP&C) helps deal with this...

Computer crash hits thousands of customers at the Post Office

THOUSANDS of people were kept waiting for their benefits and pensions yesterday after the Post Office's computer system crashed.

Customers were told staff could not deal with anything which required a computer, including posting parcels.

It was the 'fourth major service interruption' in the Post Office's electronic systems in nine months, according to Consumer Focus spokesman Andy Burrows. The system crashed yesterday morning and was not resolved for several hours.

'Customers need Post Office services, including the collection of benefits and pensions, to be reliable and resilient,' said Mr Burrows.

'The problems seem to be nationwide and have resulted in several hours of inconvenience for Post Office customers.

'We have heard some branches have decided to close early for the day – leaving customers without access to services. Most branches have only been able

by SONIA ELKS

to accept cash payments and do manual transactions such as selling stamps.

'We will be meeting with Post Office Limited to understand how the problem will be addressed.'

A Post Office spokesman apologised to customers for the problems.

He added: 'Post Office branches remained open and arrangements were put in place to ensure that special cash payments were made to pensioners and benefit claimants using the Post Office Card Account.

'Post Office ATMs, Post & Go services and Paystation bill payment and E-top up transactions were unaffected by this problem.

'Services have now fully been restored and customers are able to complete all transactions across the Post Office network. We are continuing to monitor the situation closely to make sure our services remain available as normal.' D)





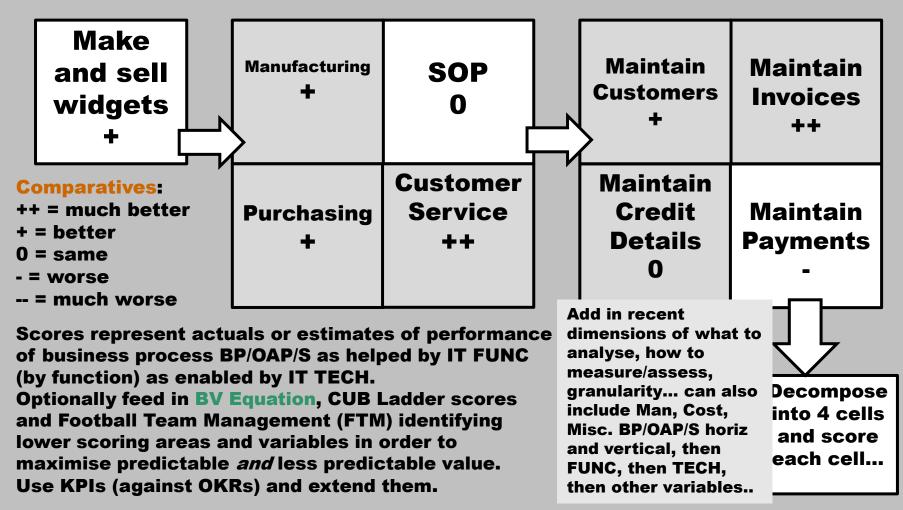
Although Peter Drucker said "You can only manage what you can measure" which is broadly true, you <u>can maximise</u> each successive tranche of value using comparatives and sensible 'handles'...



Continual Improvement with the Crossword Diagram



For 'putting a handle' on value, to identify and rectify low value scores, to <u>make sure</u> the new world is *much* better than the old

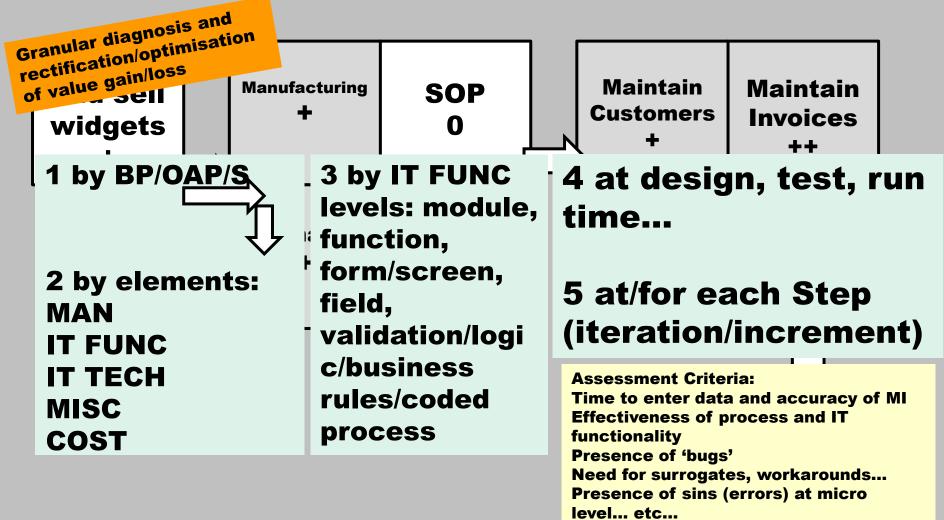




Crossword Diagram



Dimensions of Application







A construction company, a retail merchandising brokerage, a telecoms organisation and a university have all had deep rooted business-IT problems resolved or rife opportunities exploited by BVMF®

The European Purchasing Manager of a multinational manufacturer said, "Your business value approach has helped to get us more value than we thought possible."

The MaxVal website has case studies and more client comments on it...



Eras of IT Business Value and the 20-year time lag



Era	Date	Characteristics & Events	Use	Methods & BVMF	Results
0	1960- 1979	Mainframes, IBM, DEC PDP	Payroll, batch	Basic	Average. Pundits sceptical
1	1980- 1999 1996	Minis, Micros, Desktops, Apple, Visicalc, Vax/Vms (DEC), Unix, MS DOS, email, dawn of internet/web Research shows business-IT hybridism is highly powerful Saying there's problem/telling the truth is too controversial (FT IT Review) IT doesn't serve business well	RDBMS, client server, 3GL, 4GL/GE	JAD/RAD SSADM Waterfall BPR Successful multi faceted business- IT 'hybridism' leads to birth o BVMF®	Poor success Takes too long Not business focused Many failures
1	1999	IBM survey on results of ERP BCS Business-IT Bridging Group starts Agile invented	ERP, BPR	Software implementation	ganisations are m sing out on value by no reviewing their processes
2	2000 2003	David Taylor, President of IT Dirs Assoc, says "We need a whole new approach." BCS finally admits there is a problem	"We need something different"	l said 'Yes David, that's why l've developed BVMF!'	Agle authors think sortware is <i>the</i> problem
2	2000- 2019	Agile, Microsoft prevalence Business becomes client of IT (you hope) IT starts to serve business as a supplier to a client	SQL Server MS Dynamics	DevOps (hm) BVMF® refined	I gets more business fo used, continuous, g anular (hooray) – but isses the main story; agile 'smudges' value
3	2020- 2039	We are here! Business-IT collaborate, become partners which leads to <u>much</u> more value	Digitisation and 'digital' transformation	Increased interest arises in BVMF®	In Era 3 – we are finally getting there





Aspects of Value Ways of looking at value and understanding it

Two key Landscape Value Characteristics (LVCs)

<u>Above or below the value (Conceptual Units</u> of Benefit<u>) line:</u>

- Hygiene value
- Positive value
- Negative value
- Arbitrary value (starts neutral, becomes potentially Negative)

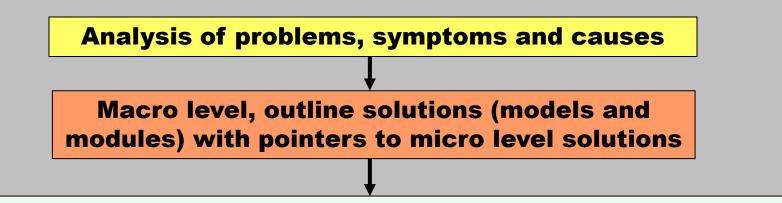
Proportionality:

- First past the post; all or nothing
- Proportional





Business Value Maximisation Framework (BVMF®)'s Structure of Components



Micro level solutions: concepts and principles (understanding the problems and focus needed) and guidelines and techniques (things to *do* to resolve the problems), structured into modules

Concepts, Principles, Guidelines & Techniques (CPGTs)

Identification &	Functional Concepts	Principles of Automation	· ·	Strategy	Business Practice &	Culture &
Maximisation		Automation	value role		Contingency	Assimilation

Models, modules and techniques are being continually developed and refined...



Business Value Maximisation Framework (BVMF®)



Is a comprehensive set of <u>fundamental, underlying principles</u> by which IT business value is maximised, practically and pragmatically

Underpins and transcends Waterfall, Agile, Wagile, Prince2 and other approaches and methods, significantly, even dramatically, increasing net business (organisational) gain

Consists of several dozen models (more than 100 when variations are included) and several hundred (approx. 450) techniques (concepts, principles, guidelines and techniques; abbreviated to CPGTs) – the models clarify the problem/challenge and point to a solution at a macro level; the techniques are things you focus on and do to solve the problem/s

Uses understandable, everyday analogies to illustrate its principles and yet has been developed from more than 35 years of first, second and third hand experience and research, all reconciled and verified using standard philosophical logic like Socratic questioning and Aristotelian syllogism coupled with techniques like hypothesis and observatory and inductive refinement. Case studies are also continually providing input and feedback

Is as much an ethos, attitude and approach (business value focused) as a set of models and techniques





It's the only fully dedicated, fundamental, understandable and usable set of principles for IT business value maximisation known to exist

<u>It does not reinvent the wheel</u> – you use it <u>with</u> Waterfall, Agile, Wagile, Prince2, everything... and it makes those approaches/methods significantly, even dramatically, more effective

It's been developed from first, second and third hand experience coupled with philosophical logic and reasoning (per Aristotle, Socrates and Plato) – practice leads to hypothesis/theory which leads on to improved practice and the cycle repeats – it never stops progressing





BVMF[®] does <u>NOT replace</u> existing/traditional/conventional methods, practices and roles – it augments, completes, focuses and refines them. It sets out the <u>principles</u> of value maximisation providing a pragmatic framework to help implement "solutions". It seeks to SIMPLIFY rather than complicate.

BVMF[®] fundamentally aims to address IT enabled *business* process but is also substantially appropriate to other software enabled technologies like aircraft operation, building management systems and IoT. It can also be useful on non-IT projects.

This slide pack has been a <u>basic</u> introduction. BVMF[®] has much more to offer as it contains:

- Several dozen models (in PowerPoint) these define the problems and offer a macro level 'solution' for the micro activities (CPGTs) to support
- Several hundred concepts, principles, guidelines and techniques (CPGTs) (in PowerPoint and Word) these are the micro level points you think about, focus on and do to enact the macro level 'solutions' presented in the models
- A number of models and approaches to implementing BVMF[®] within a systematic programme to augment the default ad hoc, tailored approach where you choose to use any of the framework's tools to help you raise your Information Systems Business Value (ISBV)[™]