Deloitte.

Improving Decision Support in Costing for Services and Programs leveraging International Best Practices

FMI Presentation

November 2019

GRAB YOUR PHONE! <u>https://www.sli.do/</u>|| Code: PDWeek Room: Beethoven

What is your level of experience with Costing?

a) None – What is costing?
b) Once or Twice – I'm no expert
c) Several Times – I have used it infrequently
d) Often – It is a fairly regular part of my job
e) All the time – I even estimate my own living expenses

For those that have experience in costing

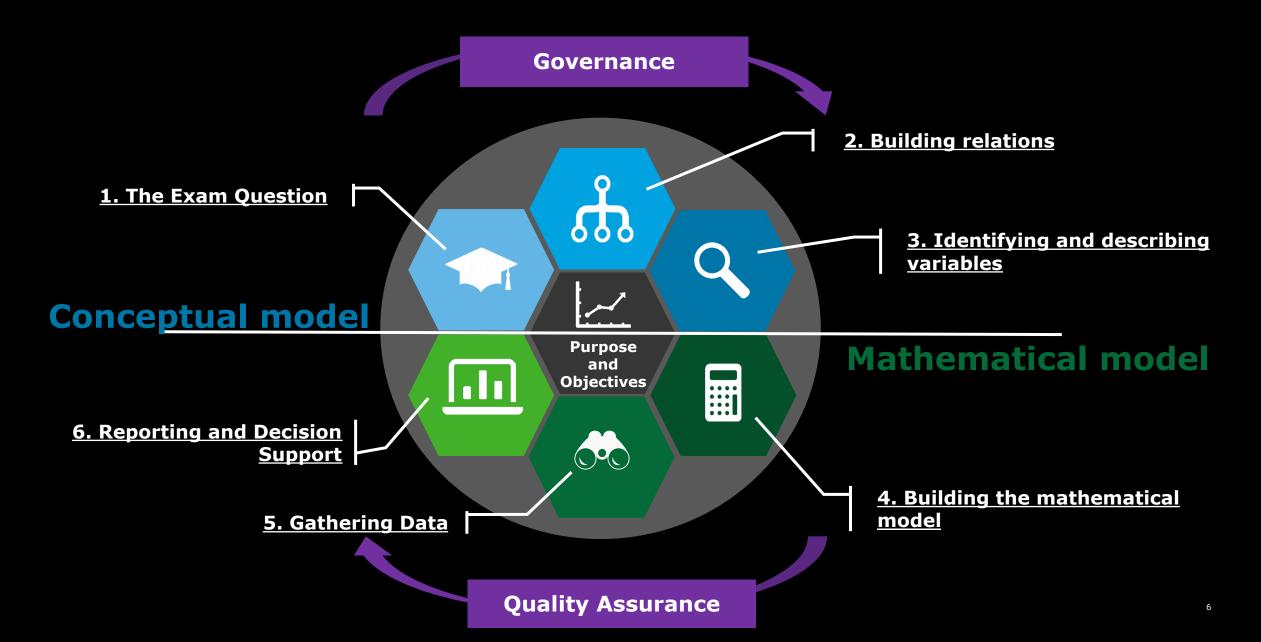
"What is your comfort level in providing decision support in the costing of projects and services in your current role?"

a)Very high, b)high, c) medium, d) low, e)Very low

Types of Costing in Projects and Services

Broad Cost Category		Туре	Example
Cost Allocation	Current	Apportionment of direct and indirect costs to improve transparency, and performance	
		Activity Based Costing and Process Improvements	
Cost Estimating	Future	Financial Modelling in pricing and risk application	$(+\div)$ × -
Cost Estimating		Life Cycle Costing in Capital Intensive Industries	

Cost models needs to be built around purpose



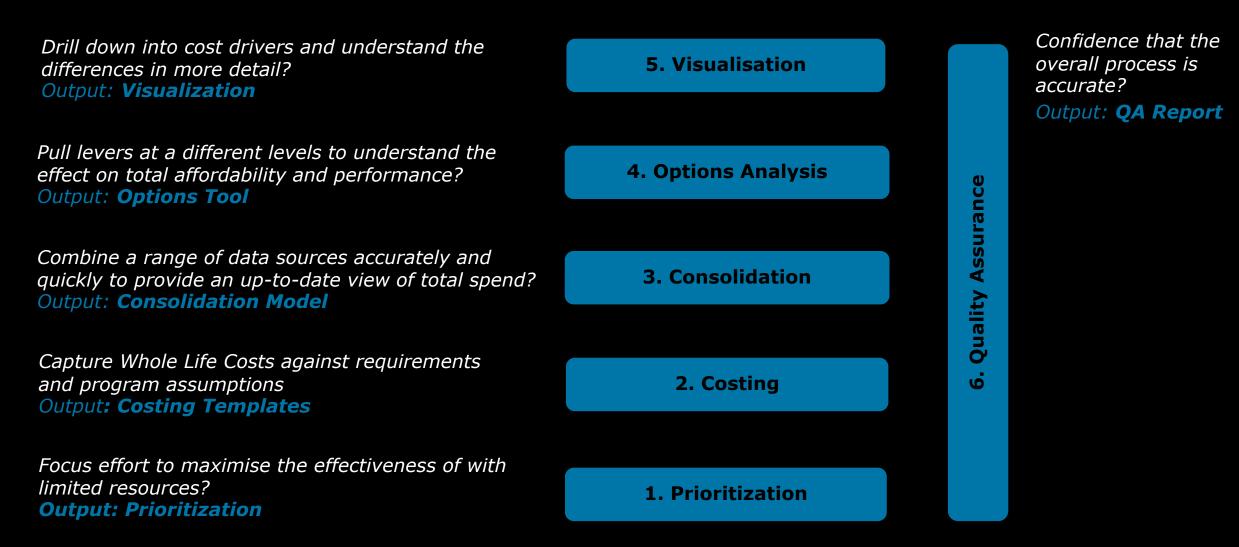
Examples of Tools that have supported Costing

	Challenges within Costing	Example software		What you need to know	
∞ ∞	Vast amounts of unstructured Data	Alteryx		 Standardize costs data capture Replicates Excel formula Inbuilt QA Function 	
	Quantification of risk and uncertainty	@Risk		 Excel Add-in Enables probabilistic costing Visual outputs 	
	Multiple Scenarios and increased complexity	PowerSim		 Systems Dynamic Software Simulation of outputs Visual outputs 	
	Multiple Decision Makers	Tableau +	+++ +++	 Innovative presentations Slice and dice data Real Time Analysis 	

Interactions with Program Areas – Case Study

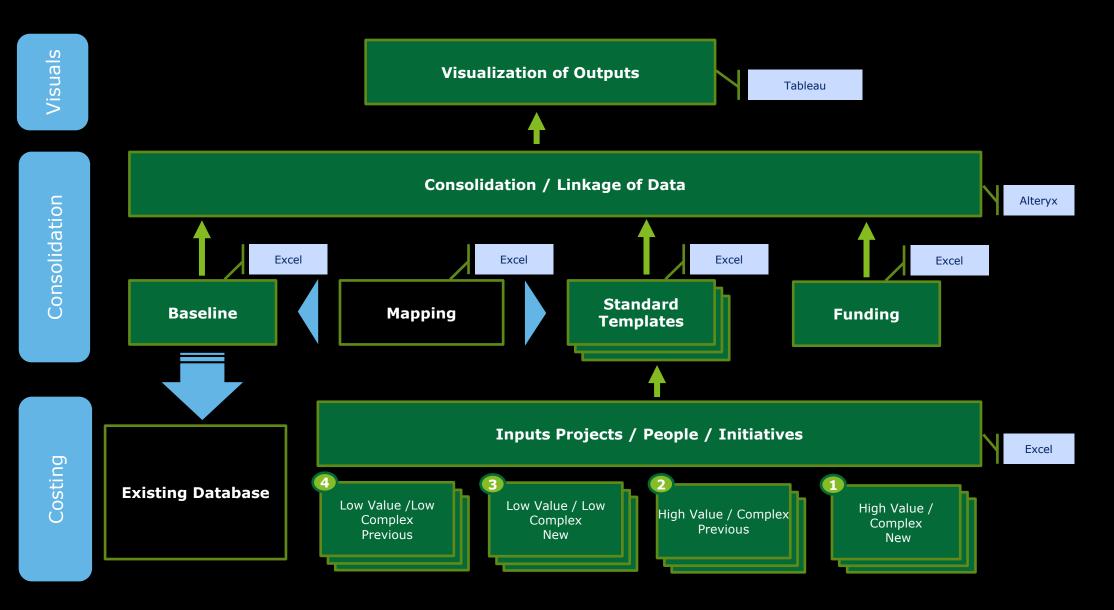
Interactions – in design, development and execution

Six modules which came together to create one overall end to end solution.



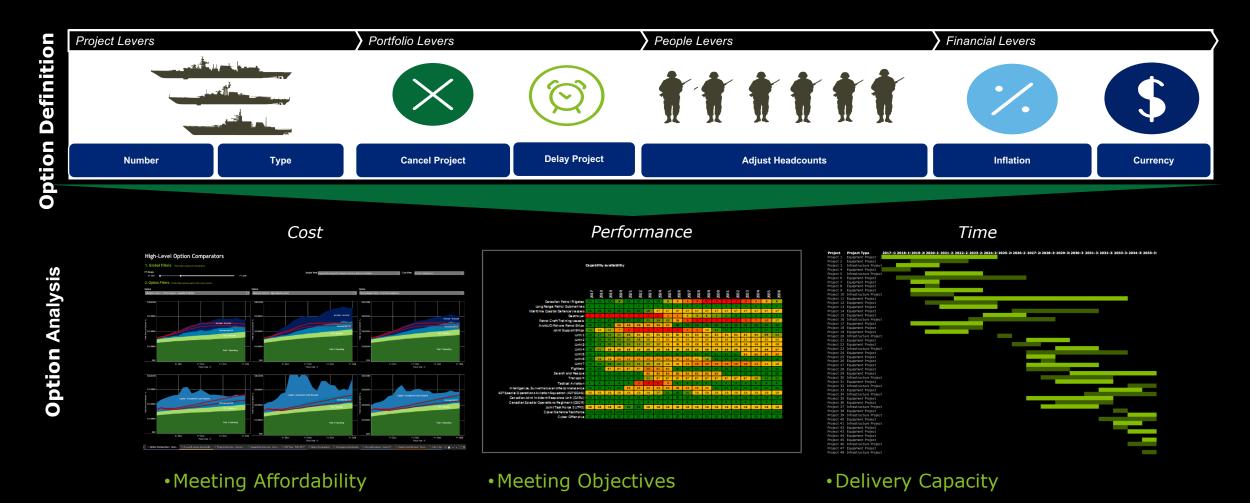
The Costing and Analytical Architecture

The modelling architecture enabled large amounts of costed data to be collected, consolidated and visualized.



The Outputs

An effective platform to derive highly visual options analysis that enabled the selection of the Canadian Defence Policy Review.



Lessons Learned – based on case study

Challenges common with costing of services and programs

Challenge	Issue	How Overcome
Ø	3 months	Prioritization and weekly reporting
	300+ projects	Scale level of effort based on materiality
\bigcirc	Designed for Treasury Board Submissions	Redesigned focus on key metrics and existing best practice
	No leakage of government policy	Secure work environment
(ÅÅÅ	Required inputs and feedback from several stakeholders	Senior intervention and swift resolution
	Not been done before	Multiple Quality Assurance
	Some projects immature limited knowledge available	Development of contingency matrix

GRAB YOUR PHONE AGAIN!

SLIDO Quiz Which data representation is better?

	Year	Canada	USA	UK	France
Cost	2019	\$ 151,473,489	\$ 757,367,445	\$ 454,420,467	\$ 302,946,978
Cost	2020	\$ 163,572,065	¢ 755 400 749	¢ 465 810 202	\$ 320,196,771
COSL	2020	\$ 103,572,005	\$ 755,422,740	\$ 405,010,302	\$ 320,190,771
Cost	2021	\$ 174,120,709	\$ 778,595,780	\$ 490,405,321	\$ 338,417,603
Cost	2022	\$ 175,059,460	\$ 791,011,905	\$ 502,142,525	\$ 357,215,238
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	Year	Canada	USA	UK	France
FTE	2019	21	93	62	46
FTE	2020	41	70	92	58
FTE	2021	49	88	162	44
FTE	2022	54	145	139	68

Which Country had the most FTES in 2019?

a) Canada

b) France

c) UK

d) USA

How many countries had an increase in cost from 2019-2020?

a) 0

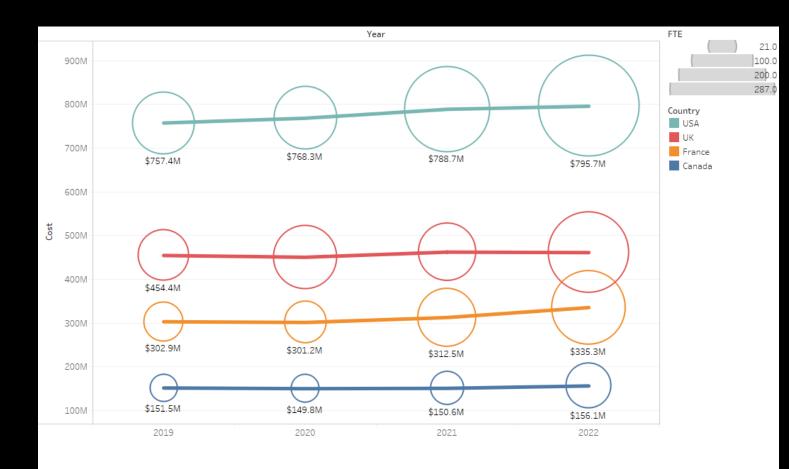
b) 1

c) 2

d) 3

e) 4

SLIDO Quiz Which data representation is better?



The trends of sum of Cost and sum of Cost for Year. Color shows details about Country. For pane Sum of Cost: Size shows sum of FTE. The data is filtered on Type, which keeps Cost, FTE and Salary.

Which country saw the highest growth in cost from 2021 to 2022?

a) Canada

b) France

c) UK

d) USA

Which country had the second most cost in 2022?

a) Canada

b) France

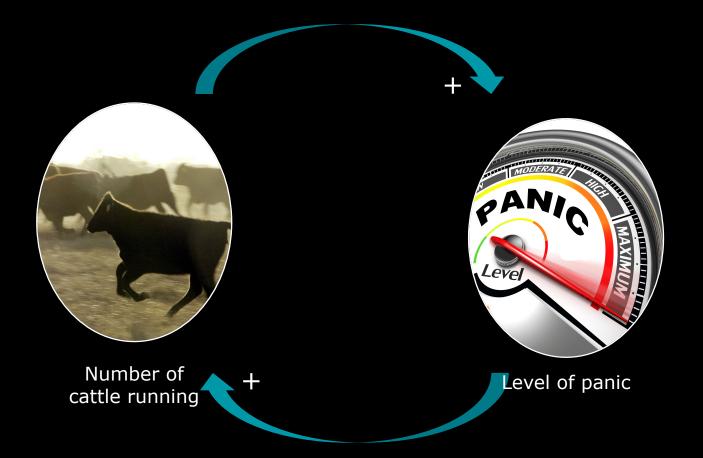
c) UK

d) USA

Challenges in Communication - removing the black box

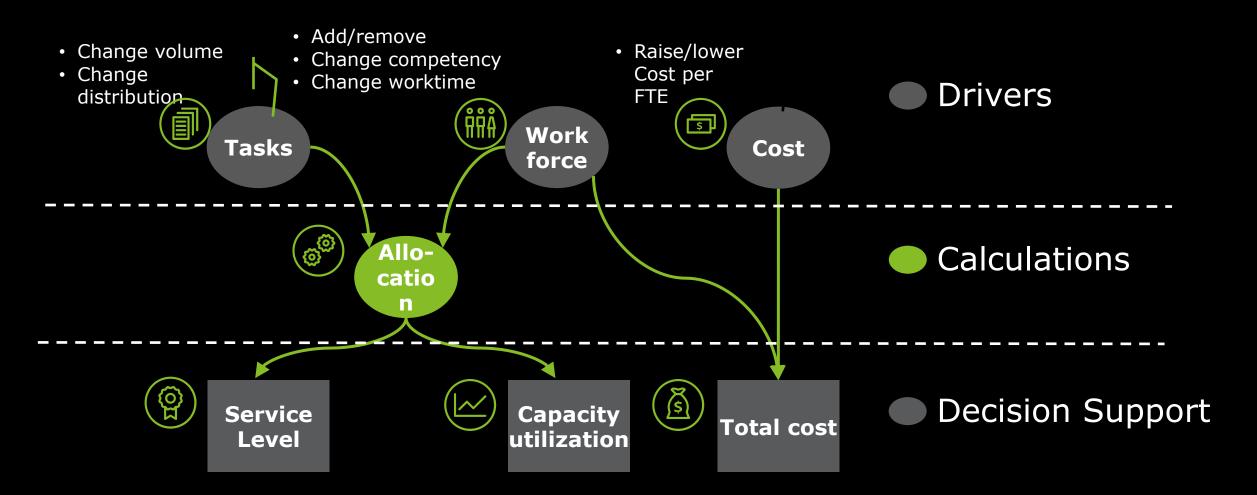
Key Advantages:

- Recognizing the cost drivers
- More Visual
- More Flexible
- Able to analyze risk and uncertainty more effectively



"You're out of beer? On a Friday night?!"

How to make sure how to keep the draft flowing.



Demonstration

What makes effective costing Summary

