

Our innovation journey using ISO 56000

Jon Rains
Head of Innovation

Agenda

- **Introductions**
- **The ISO 56000 Series**
- **The 8 principles**
- **Our innovation journey**
- **Some reflections**

An idea

Telegraphic Address
"DUMAMIS, LONDON."
TELEPHONE N° 3156.

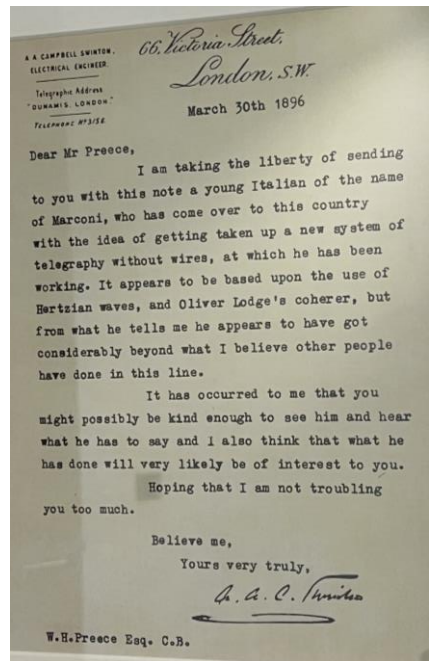
March 30th 1896

Dear Mr Preece,

I am taking the liberty of sending to you with this note a young Italian of the name of Marconi, who has come over to this country with the idea of getting taken up a new system of telegraphy without wires, at which he has been working. It appears to be based upon the use of Hertzian waves, and Oliver Lodge's coherer, but from what he tells me he appears to have got considerably beyond what I believe other people have done in this line.

It has occurred to me that you might possibly be kind enough to see him and hear what he has to say and I also think that what he has done will very likely be of interest to you.

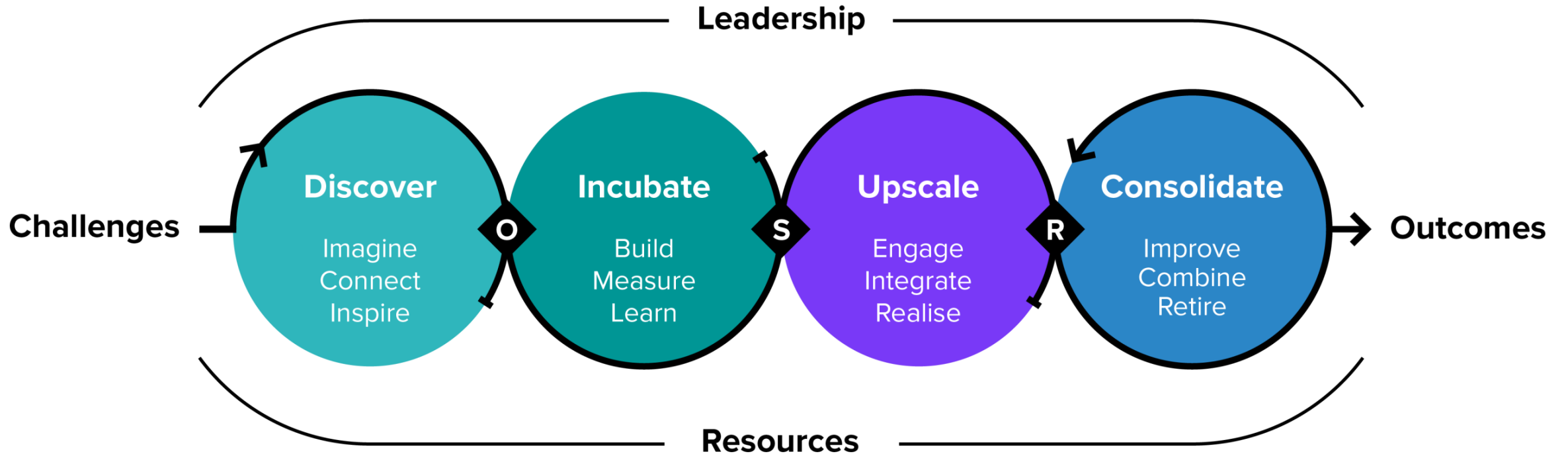
Hoping that I am not troubling you too much.



Innovation framework

The application of new ideas to realise value

◊ O Opportunity gate ◊ S Solution gate ◊ R Review gate



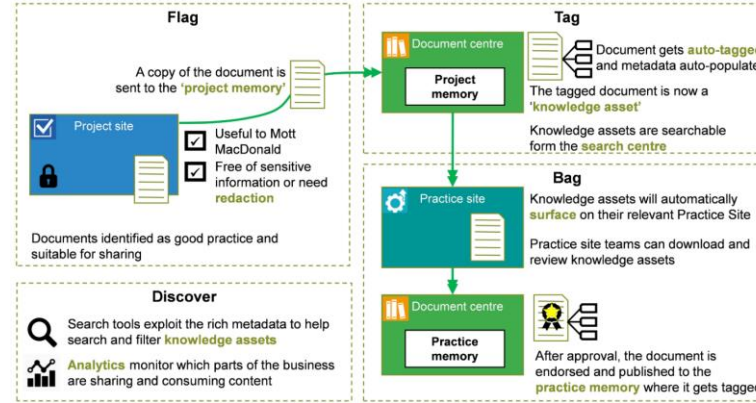
My career

1993
HND and
Degree

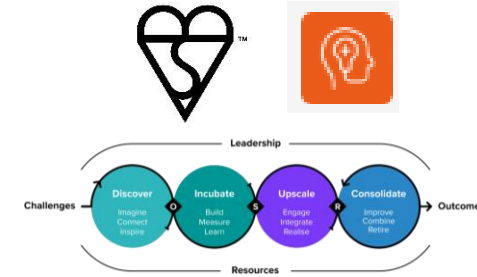
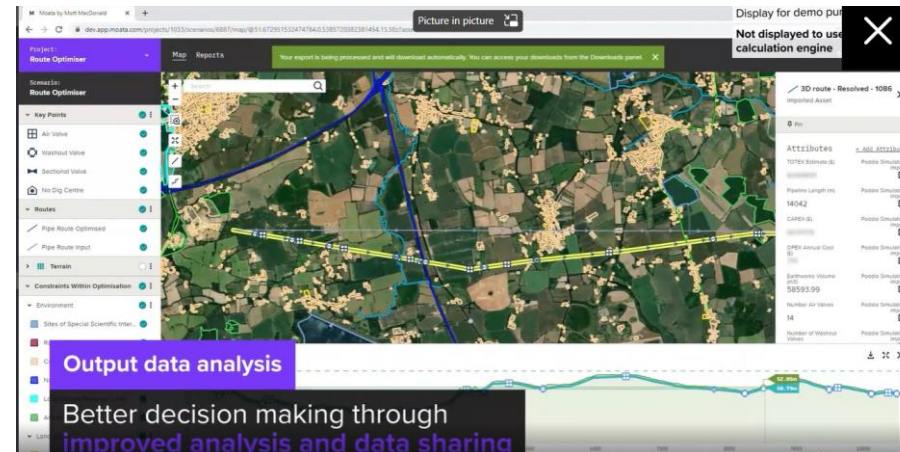
1997
Water Engineer
CT Channel



2010
Concept Search



June 2015
Route Optimiser



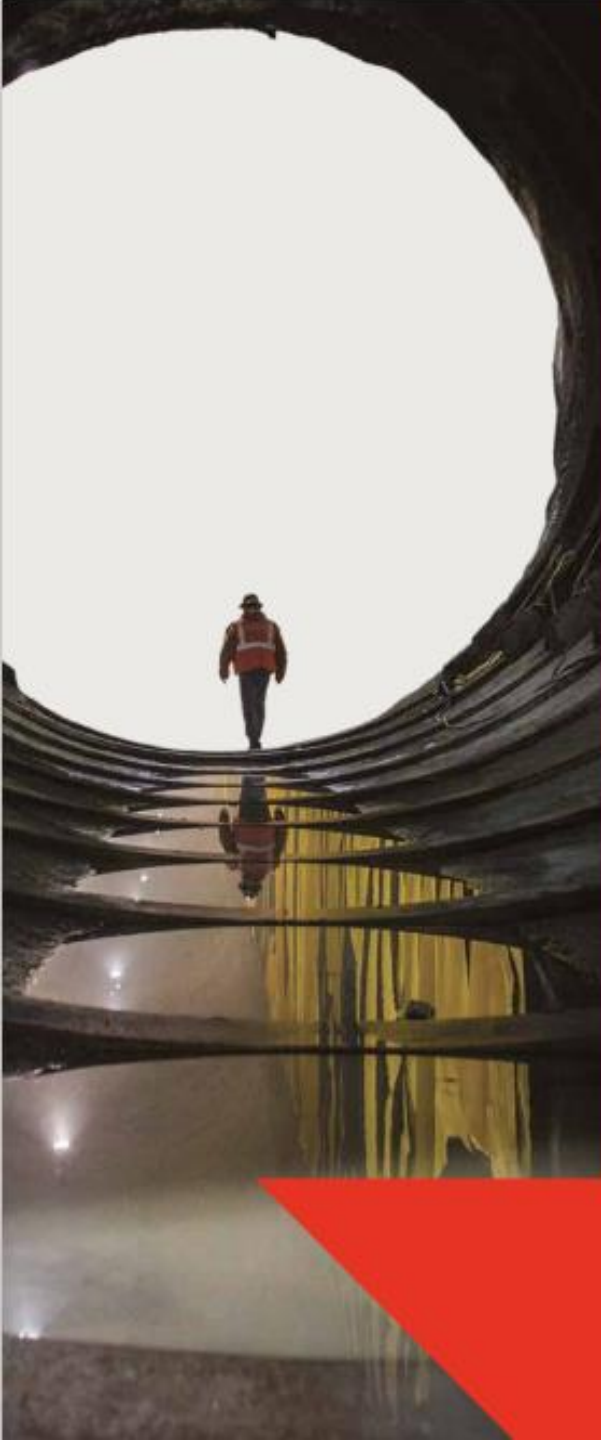
2018
Innovation
Strategy
Ventures

2022
Innovation
Management

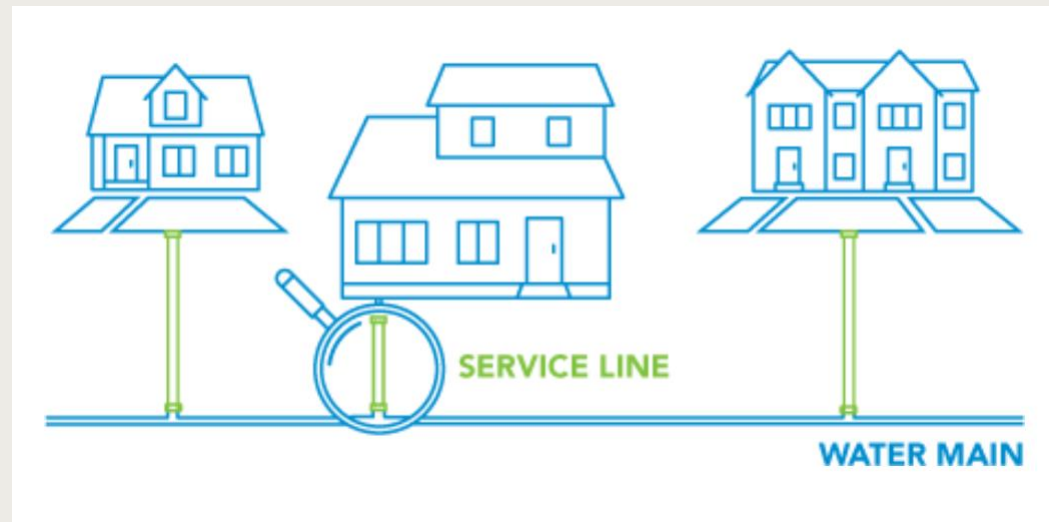
Mott

MacDonald

Engineering Management Development



**Getting the
lead out**



EPA Announces Intent to Strengthen Lead and Copper Regulations, Support Proactive Lead Service Line Removal Across the Country

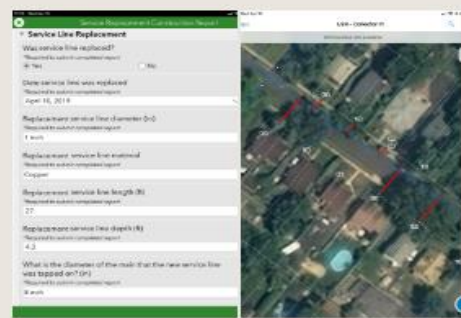
December 16, 2021

\$60-\$100 billion for LSLRs

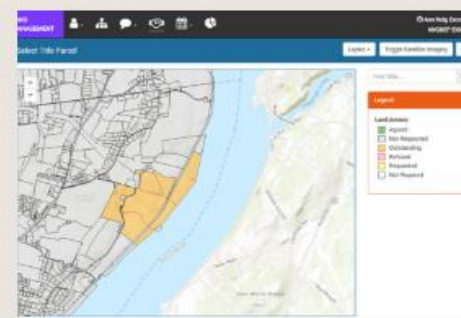


Product overview

Mott MacDonald has extensive knowledge of Lead Service Line Replacement (LSLR) programs. Our Digital Platform 'Moata' has a variety of products to support this type of work including the following:



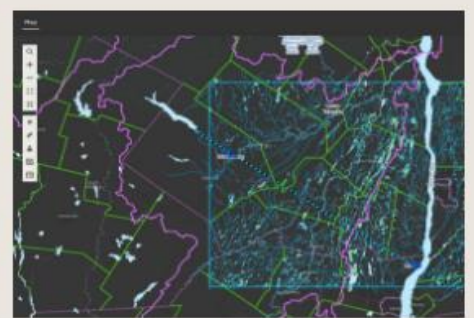
1. Inspect*



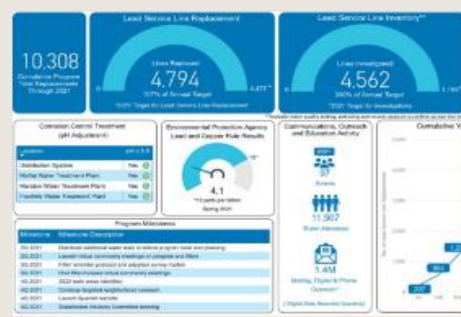
2. Land Management*



3. LSLR Prioritization



4. Geospatial*



5. Insights*

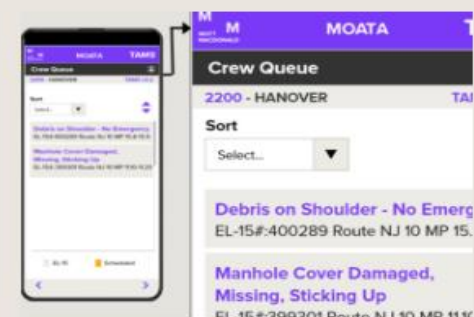
Protecting Jersey City residents. One pipe at a time.

Here's what it means for you:

Jersey City PWA experts to replace lead service lines with copper or ductile iron pipe. This project is funded by the state and local governments. The project is a priority for the city and residents. The project is a priority for the city and residents. The project is a priority for the city and residents.

FAQ'S

6. Outreach and Education



7. Work Management

Crew Material

Region: Crew Description Material Name

Central 3210 - HAMILTON All

Save Grid Layout Reload Grid Layout Export to Excel

Drag a column header and drop it here to group by that column.

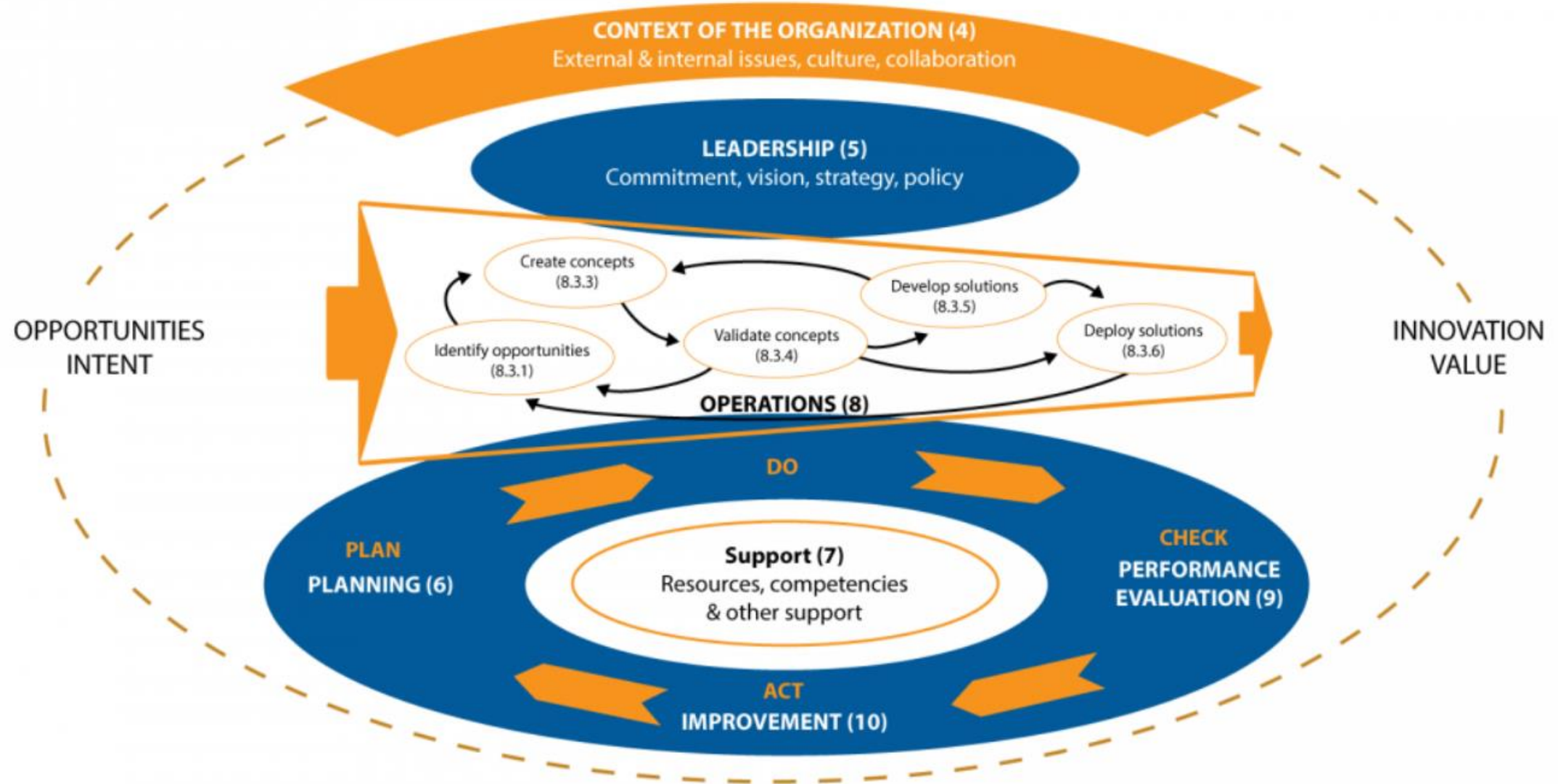
Crew Description	Material Name	UOM	Capacity
3210 - HAMILTON	4007-Cone Stone	TONS	
3210 - HAMILTON	5001-Chemical Herb Broadcast	GALLONS	
3210 - HAMILTON	5004-Chemical/Sealant	GALLONS	

Save Cancel

8. Material Management

ISO 56000

ISO 56002 & IMS Framework with PDCA Cycle



Source: <https://www.iso.org/obp/ui/#iso:std:iso:56002:ed-1:v1:en>

56000 - Fundamentals and vocabulary

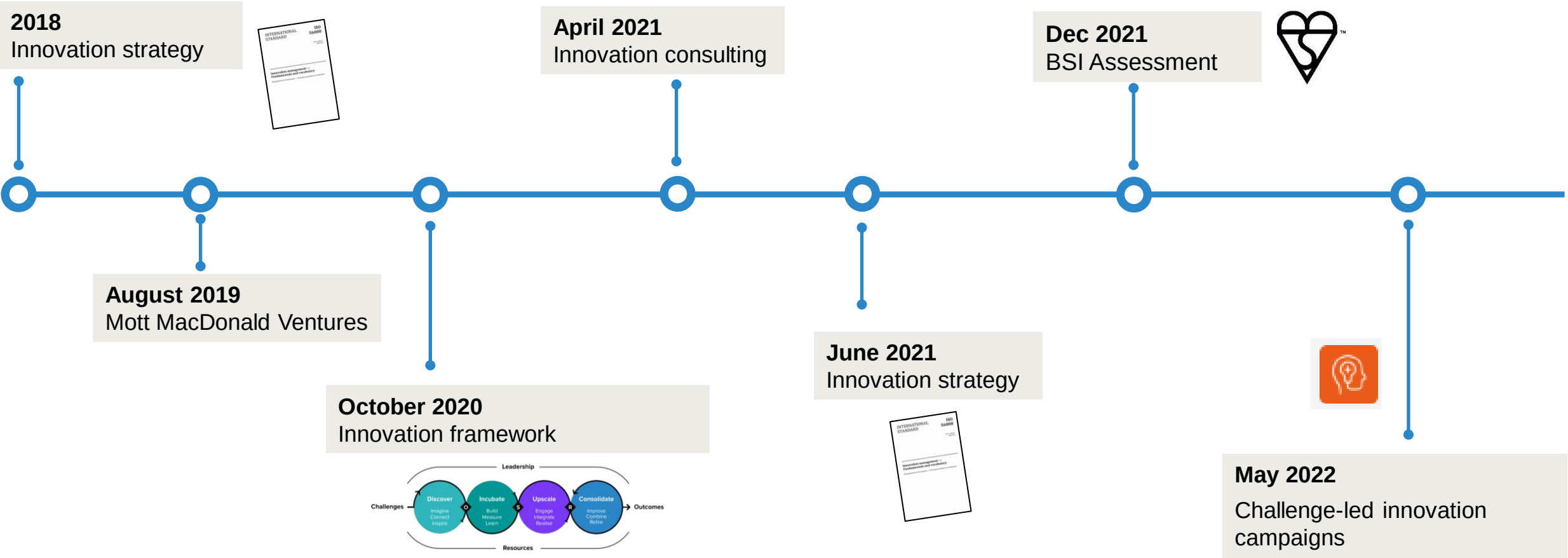
ISO 56000 Series

- 1 - Innovation management system
- 2 - Innovation management systems - guidance
- 3 - Partnerships
- 4 - Assessment
- 5 - Intellectual property management.
- 6 - Strategic Intelligence management.
- 7 - Idea management.
- 8 - Innovation operation measurements



ISO in MM

The journey



8 Principles

8 Principles

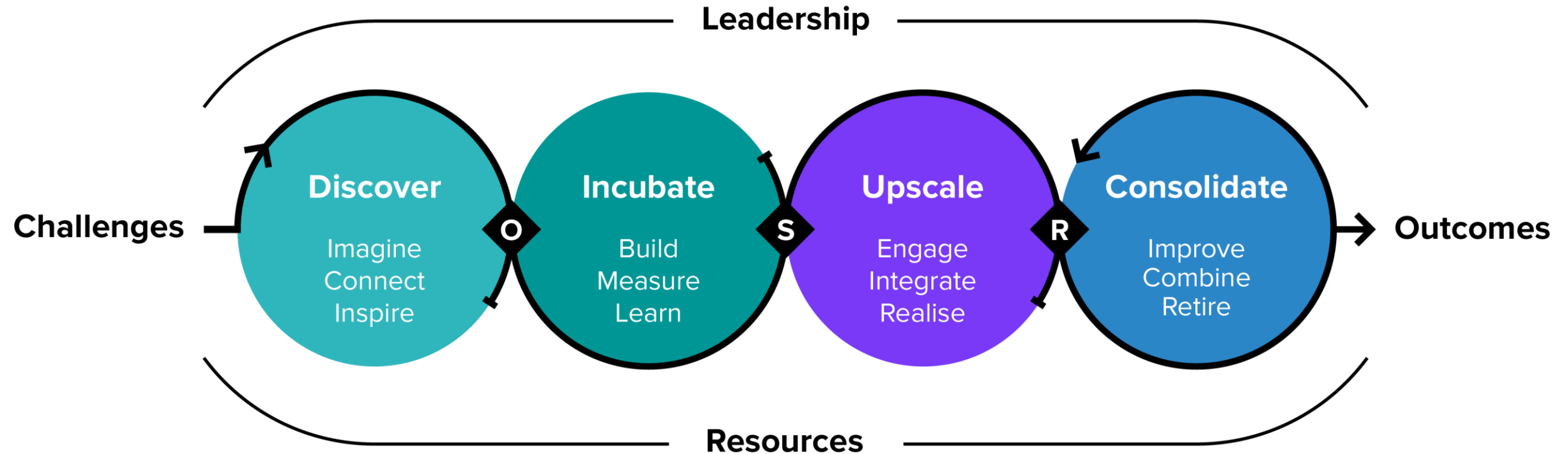


**Realisation
of value**

Innovation framework

The application of new ideas to realise value

◊ Opportunity gate ◊ Solution gate ◊ Review gate



Outcomes for Mott MacDonald

Profitable projects



Delighted customers



Industry leading reputation



Engaged staff



Outcomes for clients

Value for money



Effective production



Certainty of outputs



Safe stakeholders



Outcomes for society

Accessibility



Inclusion



Empowerment



Resilience



Wellbeing



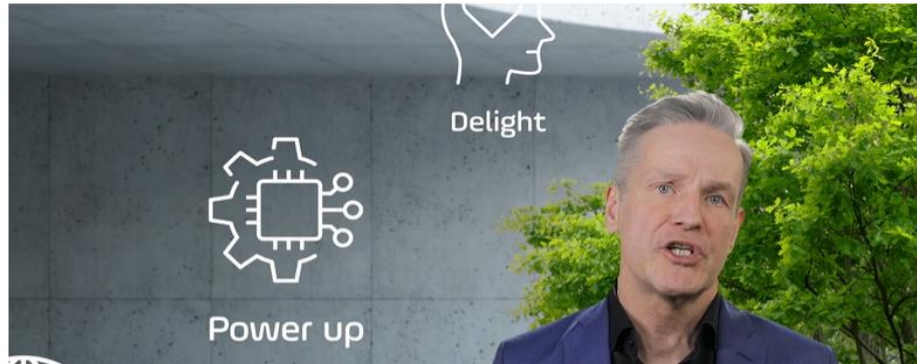
**Future-focussed
leaders**

01 - Courses

Systematic Innovation Management EN01C (SIM-EN01C)



Systematic Innovation Management is an online training program for self-paced or blended learning for leaders and managers. You will learn to proactively and systematically lead and organize innovation efforts and build crucial innovation capabilities, all with guidance from international standards.



[Back to campaigns](#)
[Edit campaign](#)

Global Defence Practice Resourcing Innovation Challenge

The biggest challenge facing the Global Defence Practice is resourcing. What can we do to attract/retain the best talent, grow an internal talent pool or increase our resource flexibility?

[Submit my idea](#)

18 33 6 24 DAYS LEFT

Ideas Details

Newest first Search keyword Filter

Review of the employee ownership model

Allow the purchase of fractional shares for an increased number of employees, rather than just those that have reached Grade E. This would be...

Show details

Ryan Segal 1 Day Ago

Small Business Acquisition

Acquire small businesses, and associated talent pools. For example, acquire RBS Consultants (who are mainly ex-RN submariners - one of which is...

Show details

Darren Batten 1 Day Ago

Attract PMs from other disciplines

I think we need to target resources from other disciplines and promote the Defence sector to them. Defence is a varied sector therefore many...

Show details

Barry Richardson 1 Day Ago

Challenge	Discover	Incubate	Upscale	Consolidate	Outcomes
CLIC Guidance	Sideways 6	SPRINT Methodology	Moata Insights	Marketing Templates	Social Value Outcomes Framework
Fishbone Diagram Template	Adding 'Ideas' App in Teams	AHA!	Kanban Board	Information Valuation - Gartner	How do I Deliver Social Outcomes?
Bias Proofing function in MS Word	Value Proposition Canvas	Roadmapping Templates	IP Guidance	Infonomics Book	Social Outcomes Toolkit
Gender Decoder	Event Planner	Business Model Canvas		Infonomics Coursera	
2 4 2 4 Youtube	UK Accelerators Full List				

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[Compass](#) > [About us](#) > [Excellence](#) > [Innovation](#) > Innovation guidance

Innovation guidance

310

Challenges
Leadership
Outcomes
Process
Resources
Stage - Discover
Tools

Guidance note	Additional resources
Challenge Design the challenge Engage the community Deliver the campaign Creating a campaign in S6	Design the challenge (Sway) Engage the community (Sway) Deliver the campaign (Sway)
Discover Add 'Ideas' app in Teams	

Strategic thinking

Innovation strategy

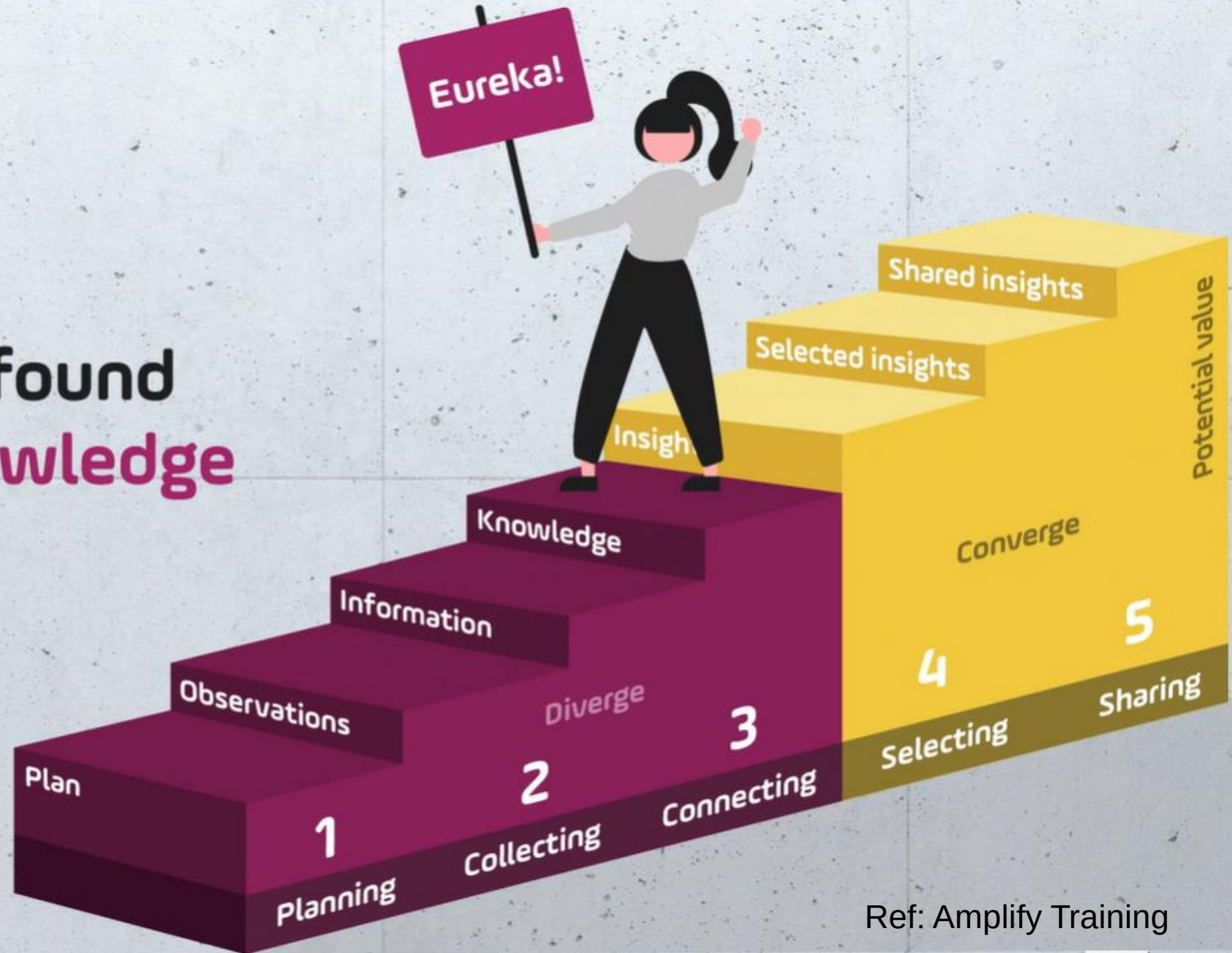
Group and regions

Culture

- **Intrapreneurial leadership**
- **Ambidextrous mindset - core business and innovators.**
- **Situational leadership as the innovation progresses.**
- **Showcasing our innovations**
- **Capability development**
- **Celebrate success – Milne innovation awards**
- **Embrace learning from failures**

**Exploiting
insights**

Uncovering profound and **unique knowledge**



Challenges examples

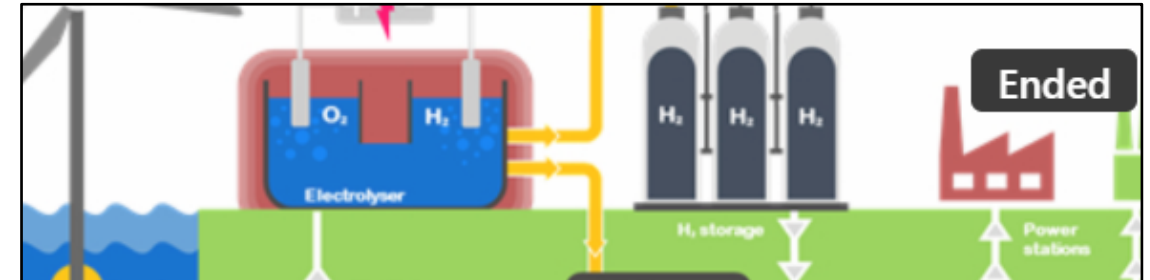


Ended

Your chance to contribute to innovation in sustainability

How can we make the UN Sustainable Development Goals (SDGs) more tangible and inspire systems thinking by proving that they speak to our purpose and will open...

💡 20 👍 0 💬 0



Ended

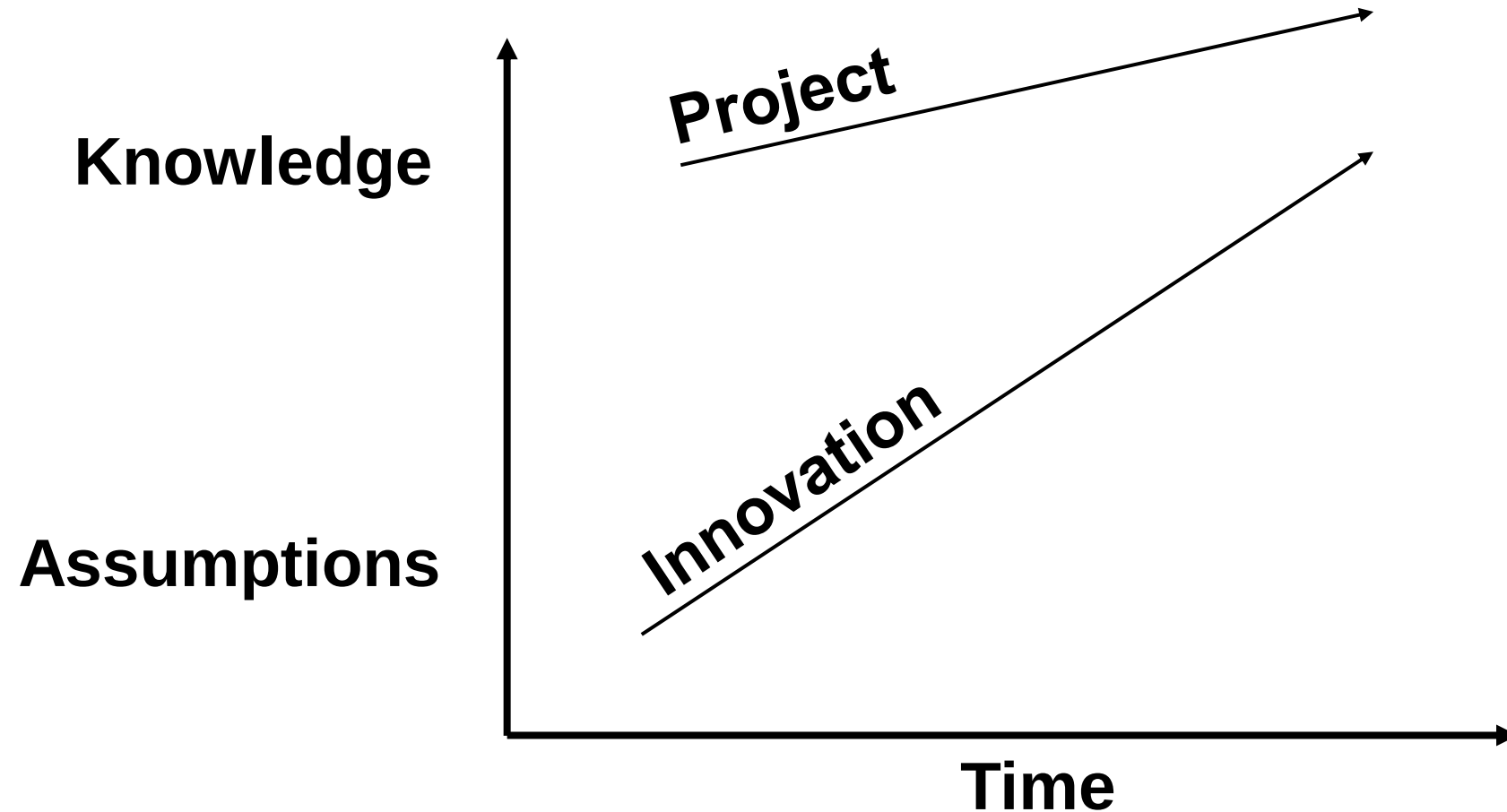
Innovate the Future of Energy

How might we innovatively implement hydrogen in the link between offshore wind and delivery of energy to cities, communities, and industry? Components of this...

💡 71 👍 58 💬 47

Managing uncertainty

Project management & experiments



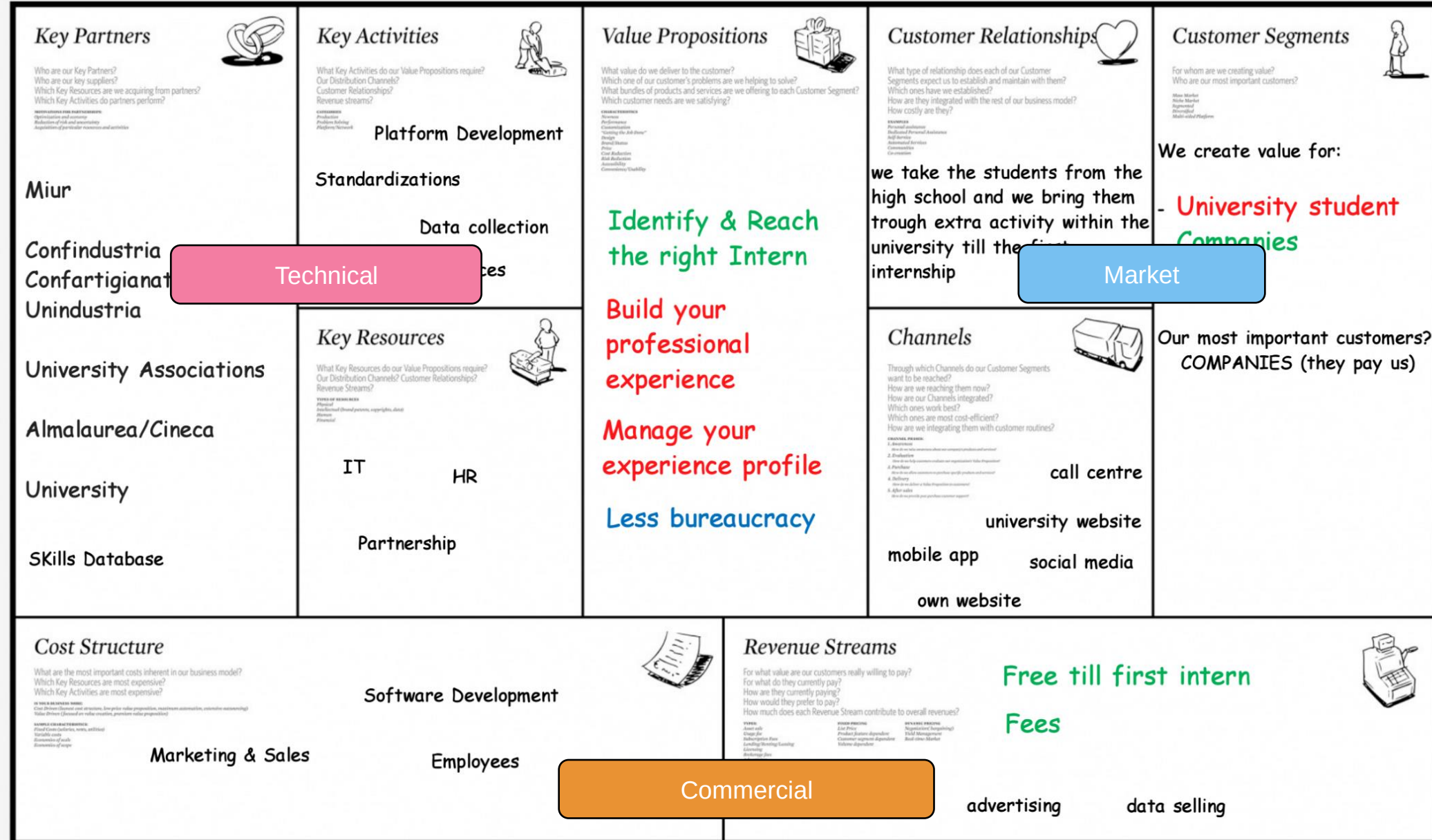
Adaptability

The Business Model Canvas

Designed for:
Start Up Lab

Designed by:
Job'scool

On: Day Month Year
Iteration:

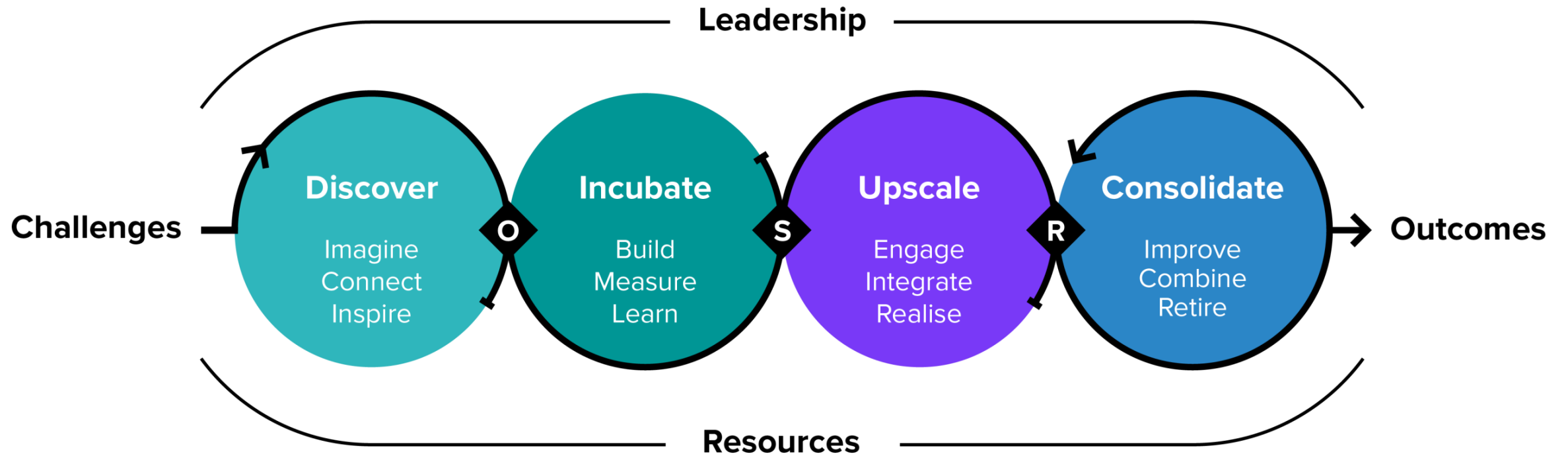


Systems thinking

Innovation framework

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◊ Opportunity gate ◊ Solution gate ◊ Review gate



Group

Group Innovation strategy 2021

Regional Plans

EUNA Regional Plan : EUNA Innovation Plan

GSS Regional Plan: Group Support Services Innovation Plan

ISMA Regional Plan: ISMA Innovation Plan

MMBC Regional Plan: MMBC Innovation Plan

MMDV Regional Plan: MMDV Innovation Plan

Unit Plans

APD Unit Plan: APD Unit Plan

BNC Unit Plan: BNC Unit Plan

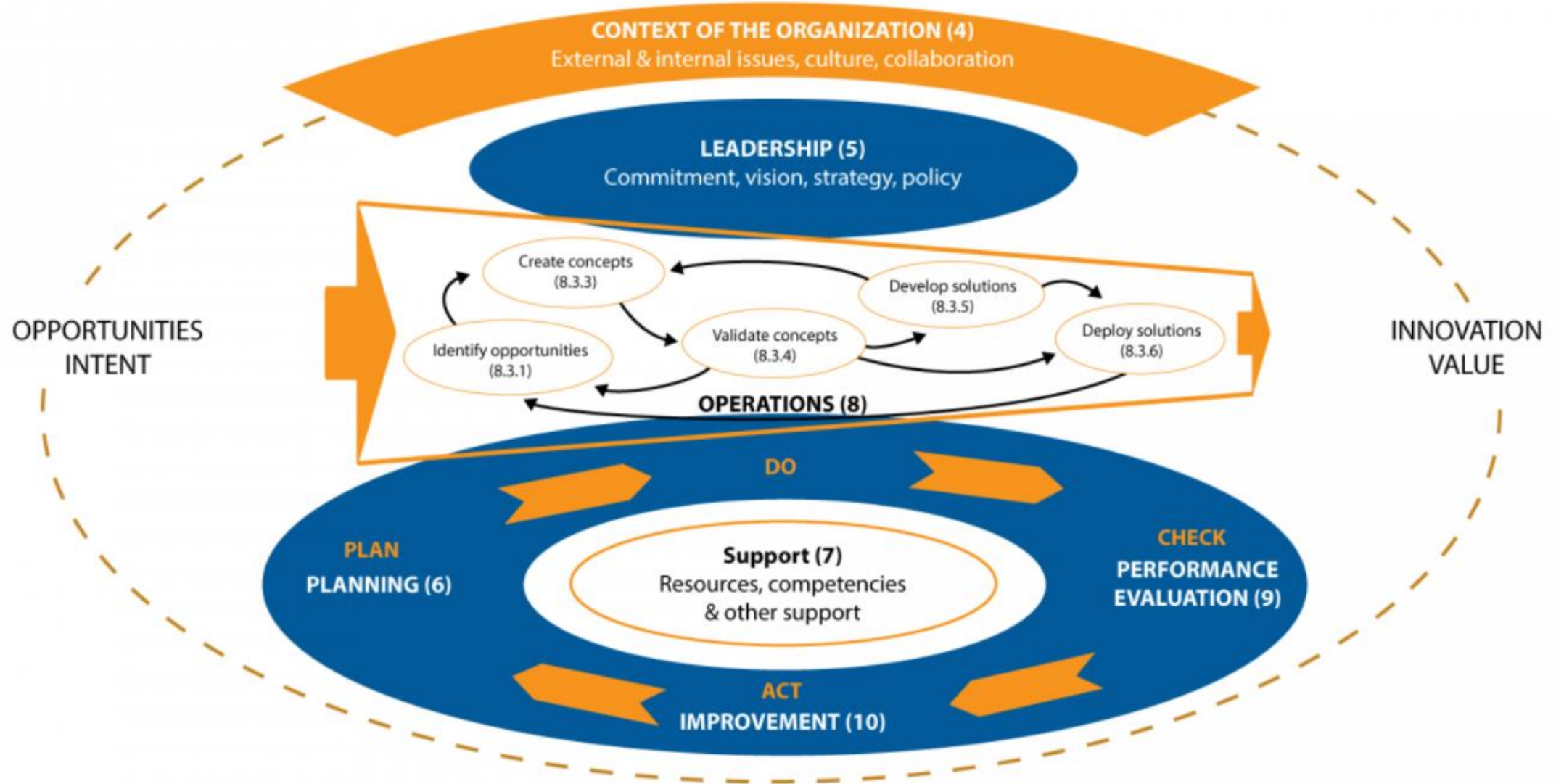
Operating model

Central or Distributed

- Context
- Ownership
- Diversity

Summary

ISO 56002 & IMS Framework with PDCA Cycle



Source: <https://www.iso.org/obp/ui/#iso:std:iso:56002:ed-1:v1:en>

8 Principles



Learning

- Context for maturity, culture and operating models
- K/A - Products low whereas projects high
- Make decisions



Thank you