



How *SMART* is your Factory?



Croeso

Bienvenido

환영합니다

Mique wush tagooven

Laskaavo prosimo
ยินดีต้อนรับ

Bienvenidos

Welcome 歡迎

Velkommen

مرحبا

Yá'át'ééh
Welkom

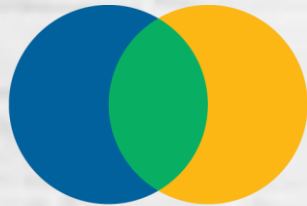
འཕྱོག་པ་ལེགས།

καλώς ήλθατε

Vítejte

John Broadbent

Founder & MD



RealisePotential

How can Industry
4.0 and Digital
Technology make
your factory
SMART(er)?



DIGITAL TRANSFORMATION

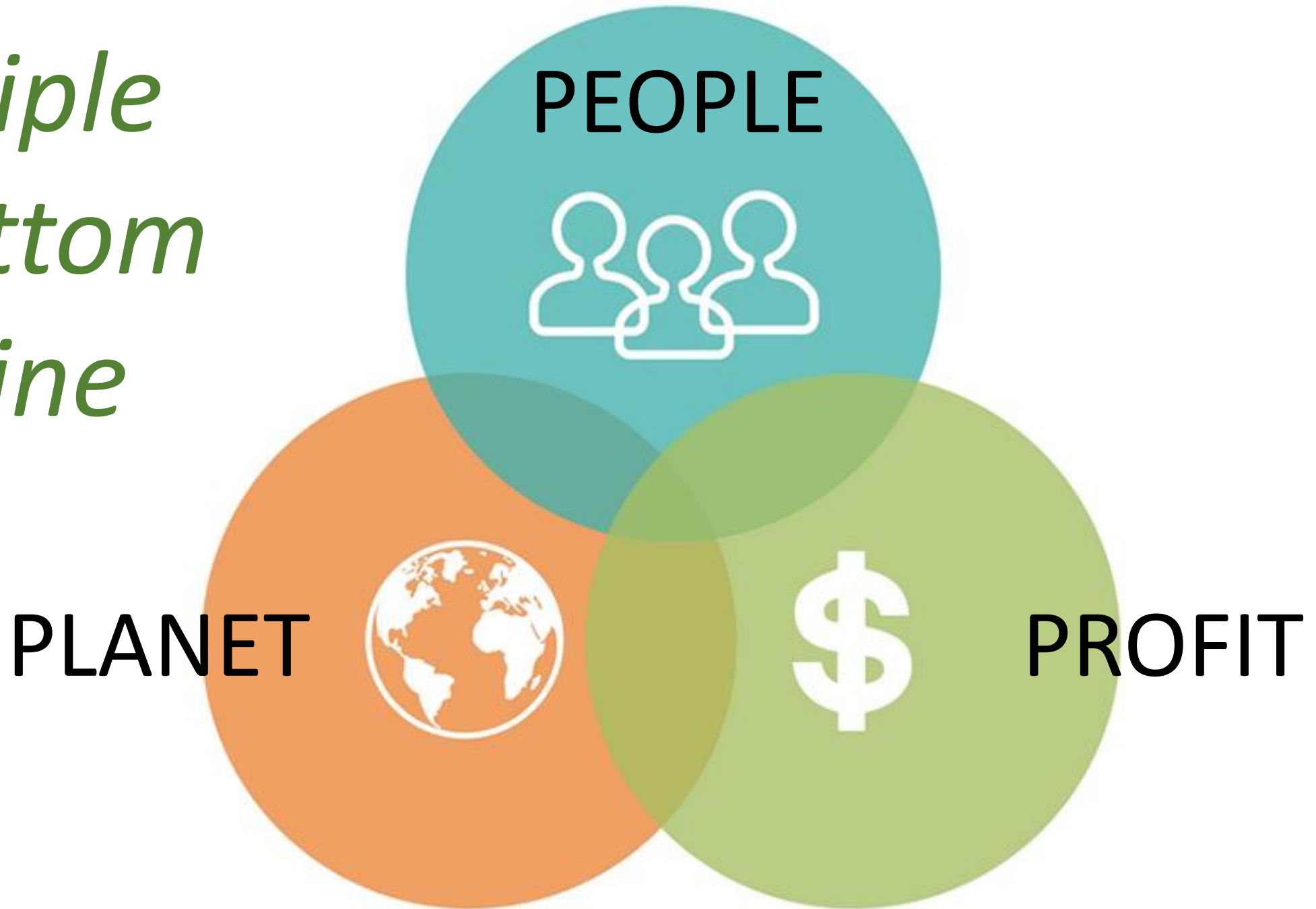
Headwind



Tailwind



*Triple
Bottom
Line*



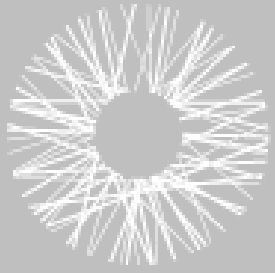
WE HAVE TO DO
MORE WITH LESS.



TOM
FISH
BURNE



“Digital factory investments have led to an average increase of *10 per cent* in production output, *11 per cent* in factory capacity utilization, and *12 per cent* in labour productivity.”



NUCLEUS
RESEARCH

Analysis of potential improvements using predictive maintenance:

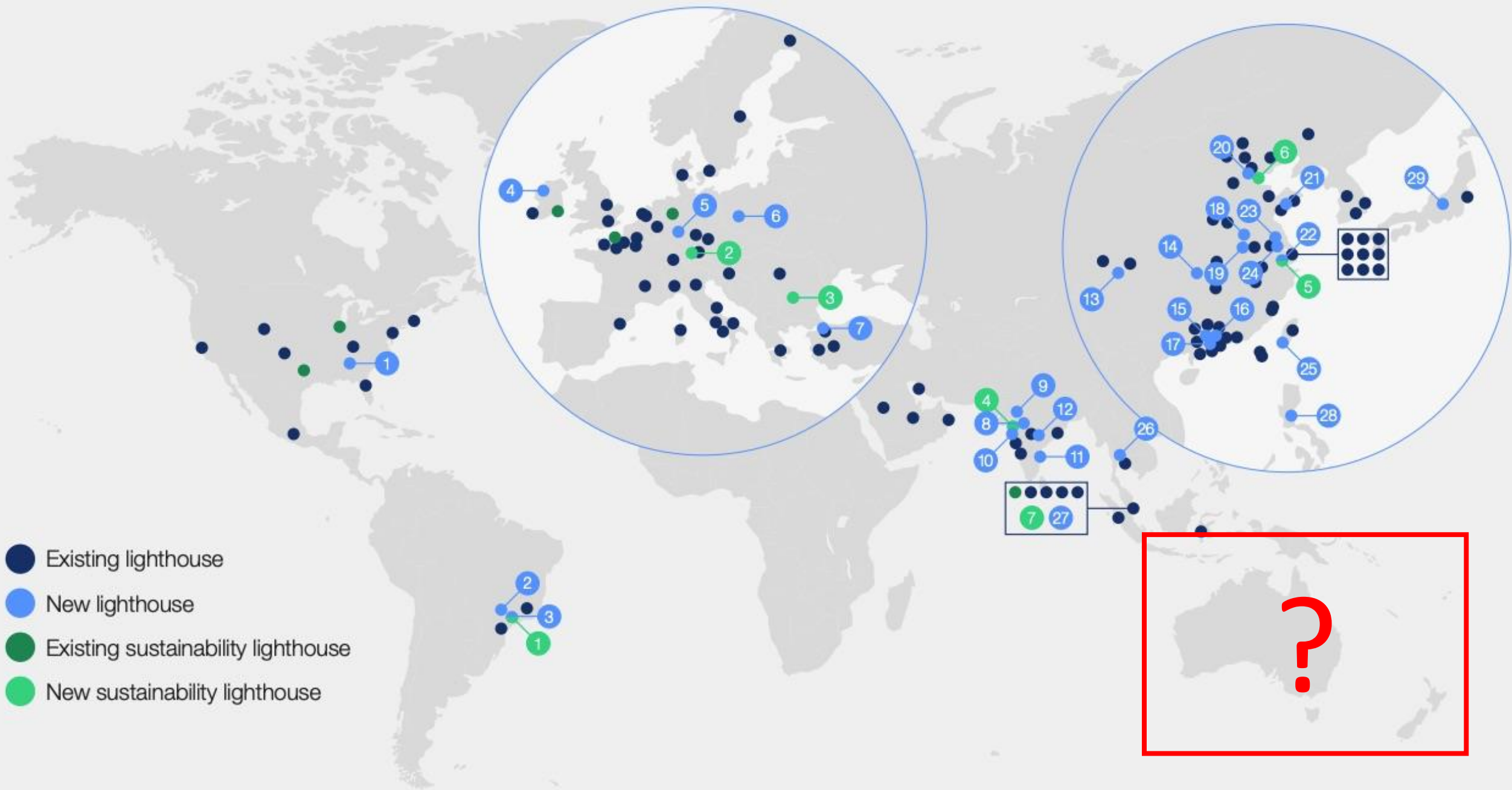
- Reduction of annual unplanned downtime: **60–90%**
- Reduction of excess capacity required to compensate for unplanned downtime: **up to 90%**
- Scrap or rework reduction: **up to 50%**
- Asset life extension improving lifetime return on assets: **5–15%**

What is a Lighthouse?

Lighthouses are manufacturers showing leadership in applying 4IR technologies at scale to drive step-change financial, operational and sustainability improvements by transforming factories, value chains and business models.

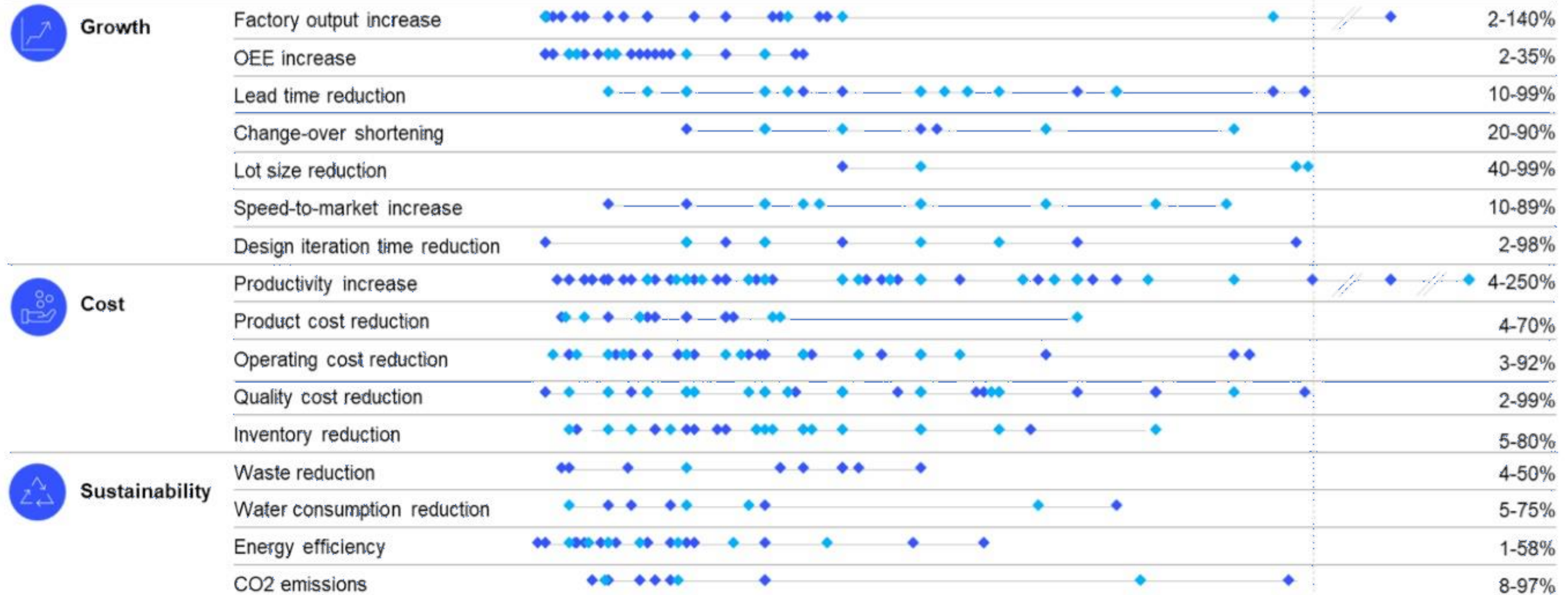
A photograph of a lighthouse on a small island in the middle of a body of water. The lighthouse is a tall, dark structure with a bright light at the top. The sky is a mix of blue and orange, indicating sunset or sunrise. In the foreground, there is a wooden pier or breakwater extending into the water.

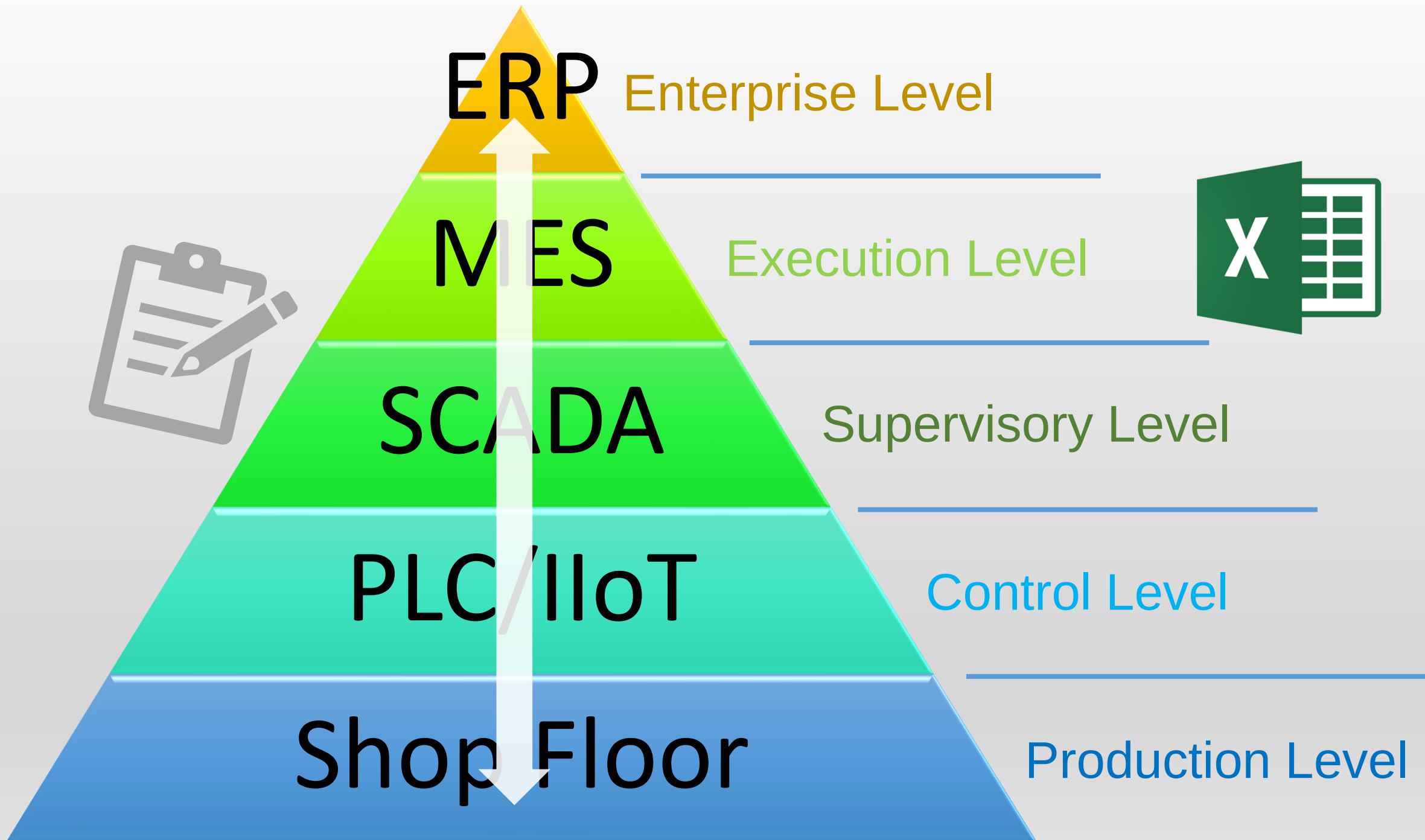
The Global Lighthouse Network is comprised of 153 ‘Lighthouses’, across a range of sectors ...



Metric Improvements

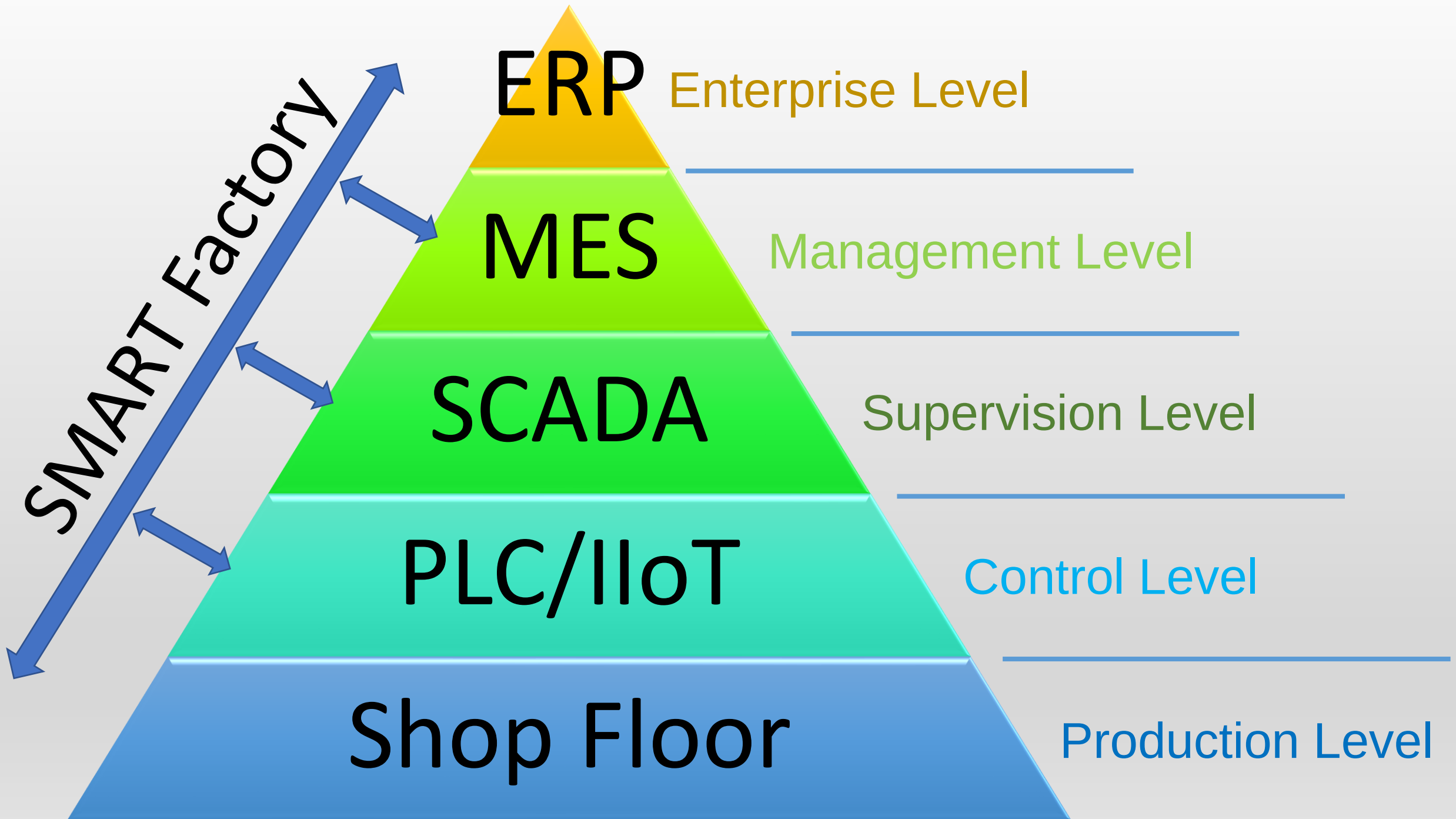
KPIs improvements





Paperless Manufacturing





INTEGRATION

The background features a complex pattern of overlapping gears in shades of blue and red. Dotted lines with arrows indicate a flow or integration process. Various icons are scattered throughout, including a globe, a paperclip, a smartphone, a Wi-Fi symbol, and a hierarchical tree diagram.

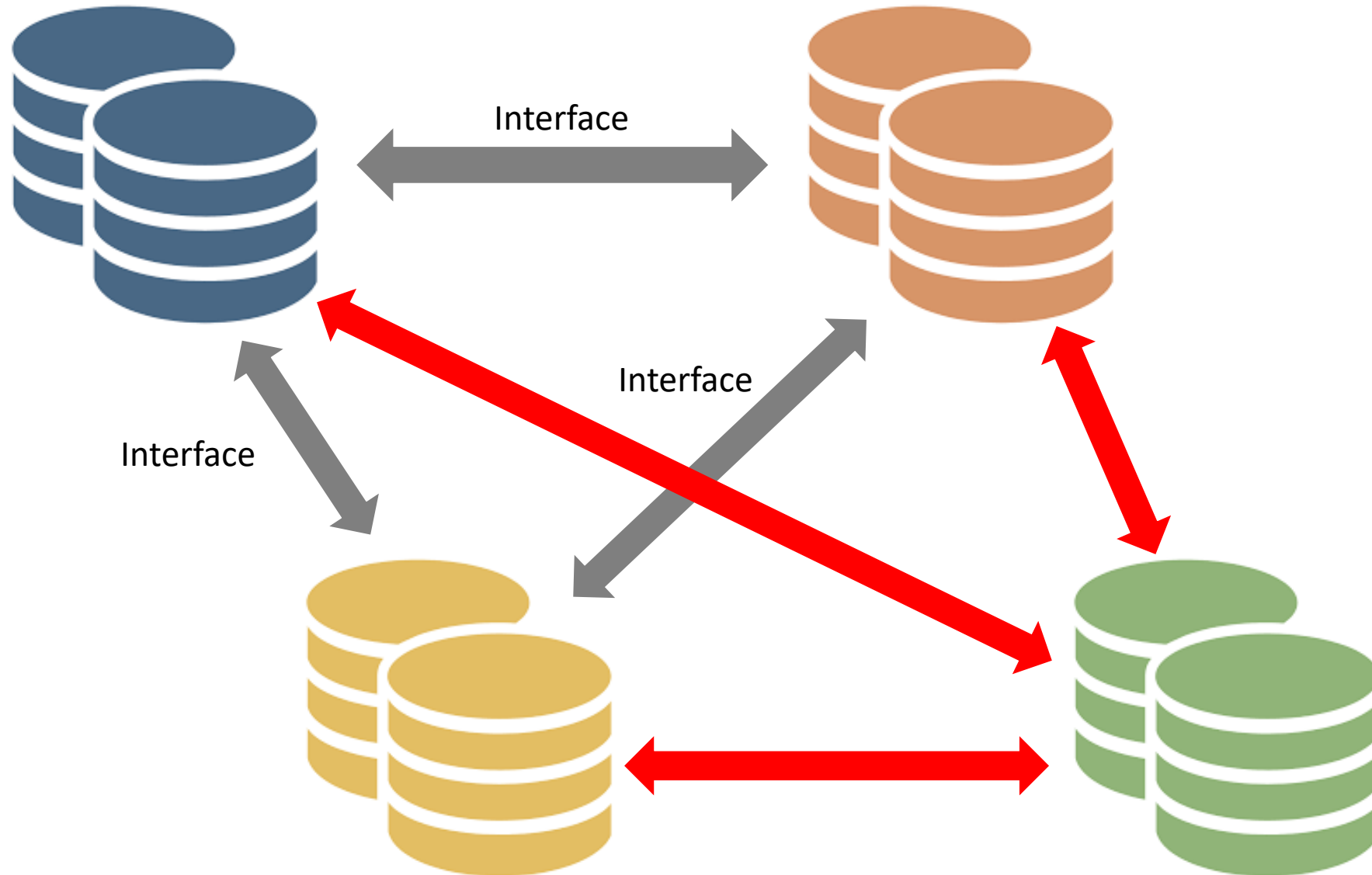
“When separate things are brought together”

INTEGRATION PROVIDES:

1. Visibility into what's going on within a system and around it
2. Ability to capture and store that information, for historical retrieval
3. Ability to then 'mash-up' disparate data to build relationships
4. Ability to see cause-and-effect conditions improving RCA
5. Creates foundation for future machine-learning and AI applications

BEWARE

MANY-TO-MANY MODEL ...



Ravensthorpe Nickel Operation (RNO) in 2007



63 Interfaces!

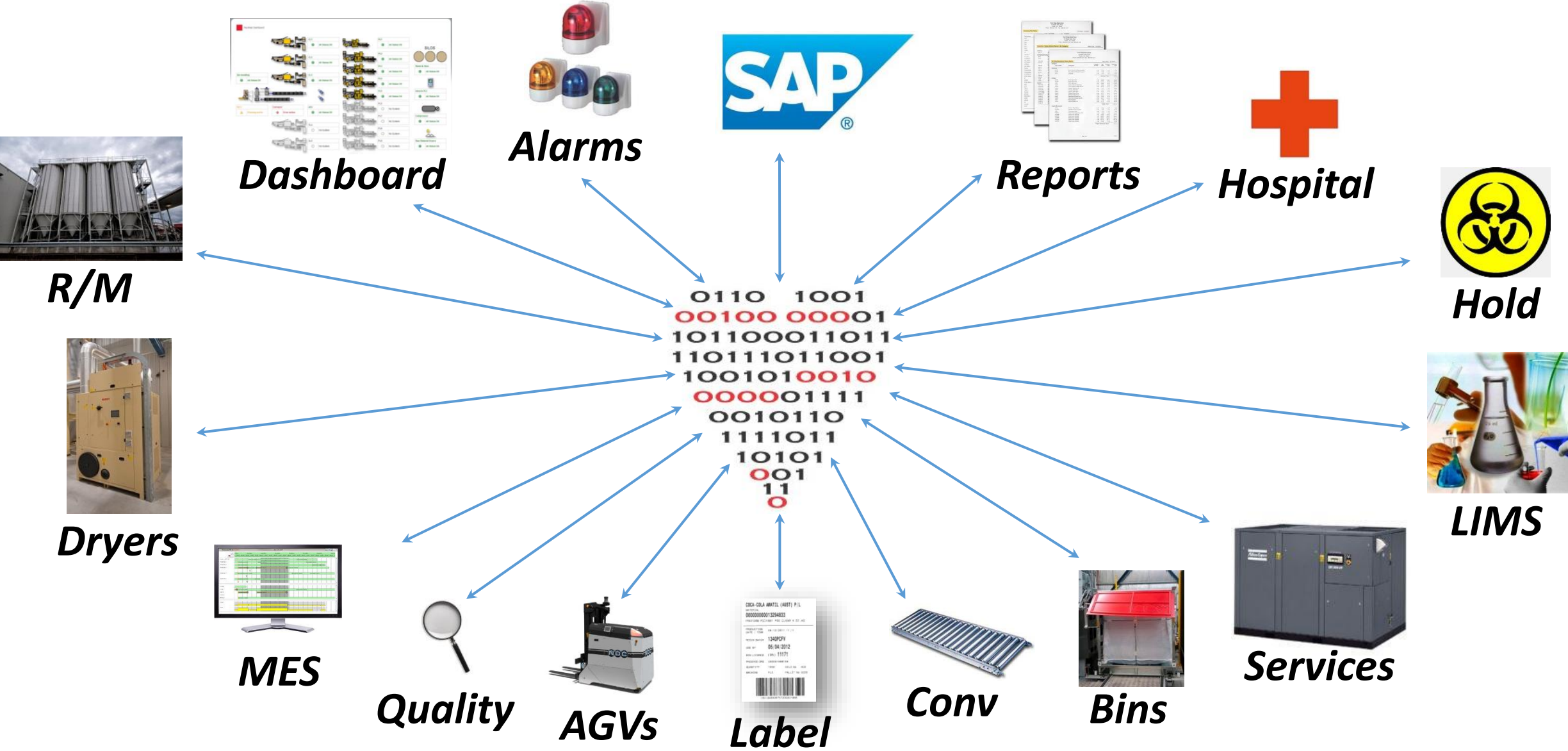




Hub 'n' Spoke



Overall CCEP Landscape



100%



Year

Qtr

Mth

Week

Day

Shift

Hour

Min

Sec

LAG MEASURES

*Business
Intelligence*

LEAD MEASURES

*Manufacturing
Intelligence*

AGILITY

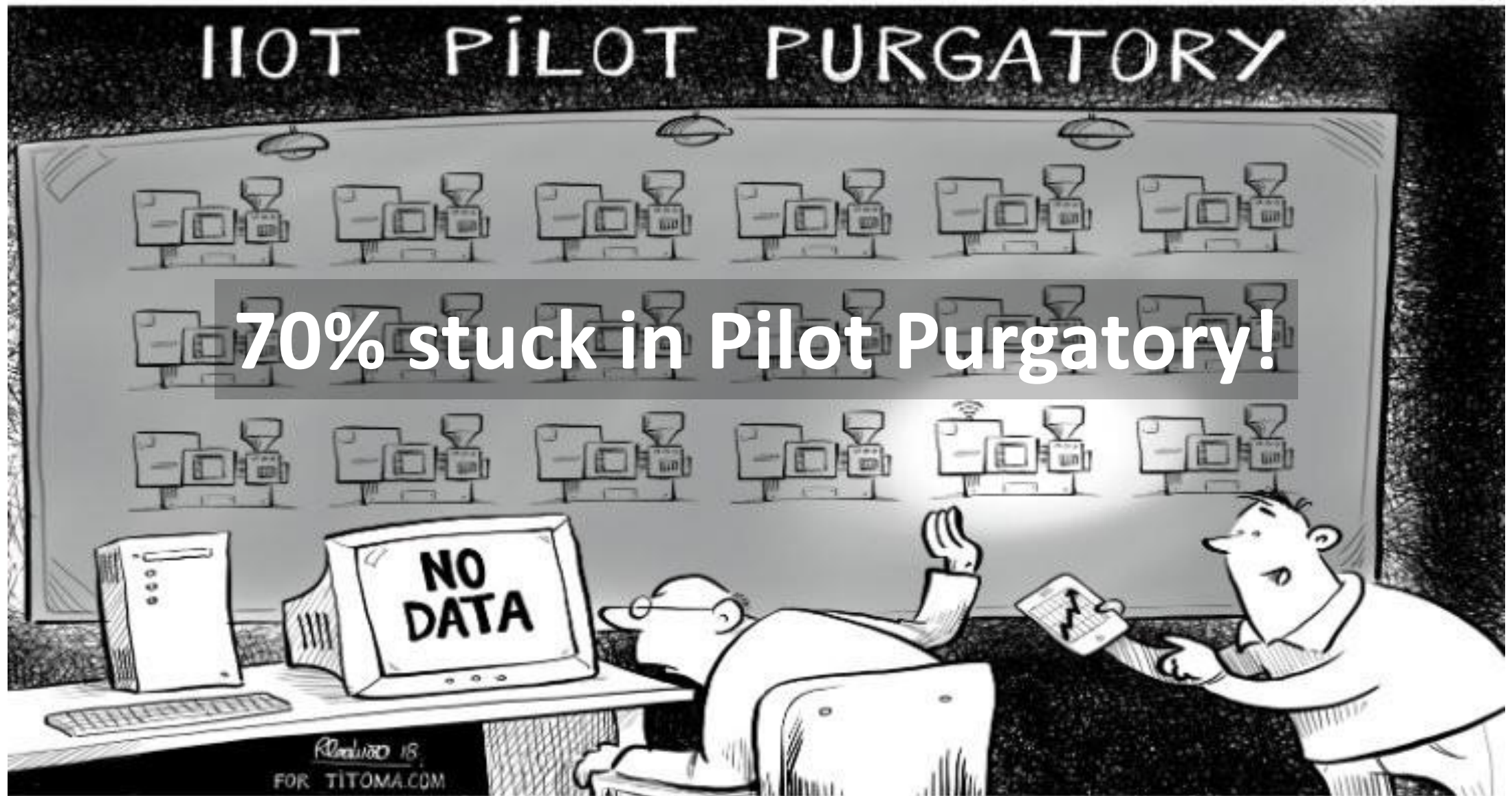
Cisco Survey Reveals Close to Three-Fourths of IoT Projects Are Failing

🕒 May 23, 2017



HOT PILOT PURGATORY

70% stuck in Pilot Purgatory!





POC

PROOF OF CONCEPT

Will it work?
(functional)

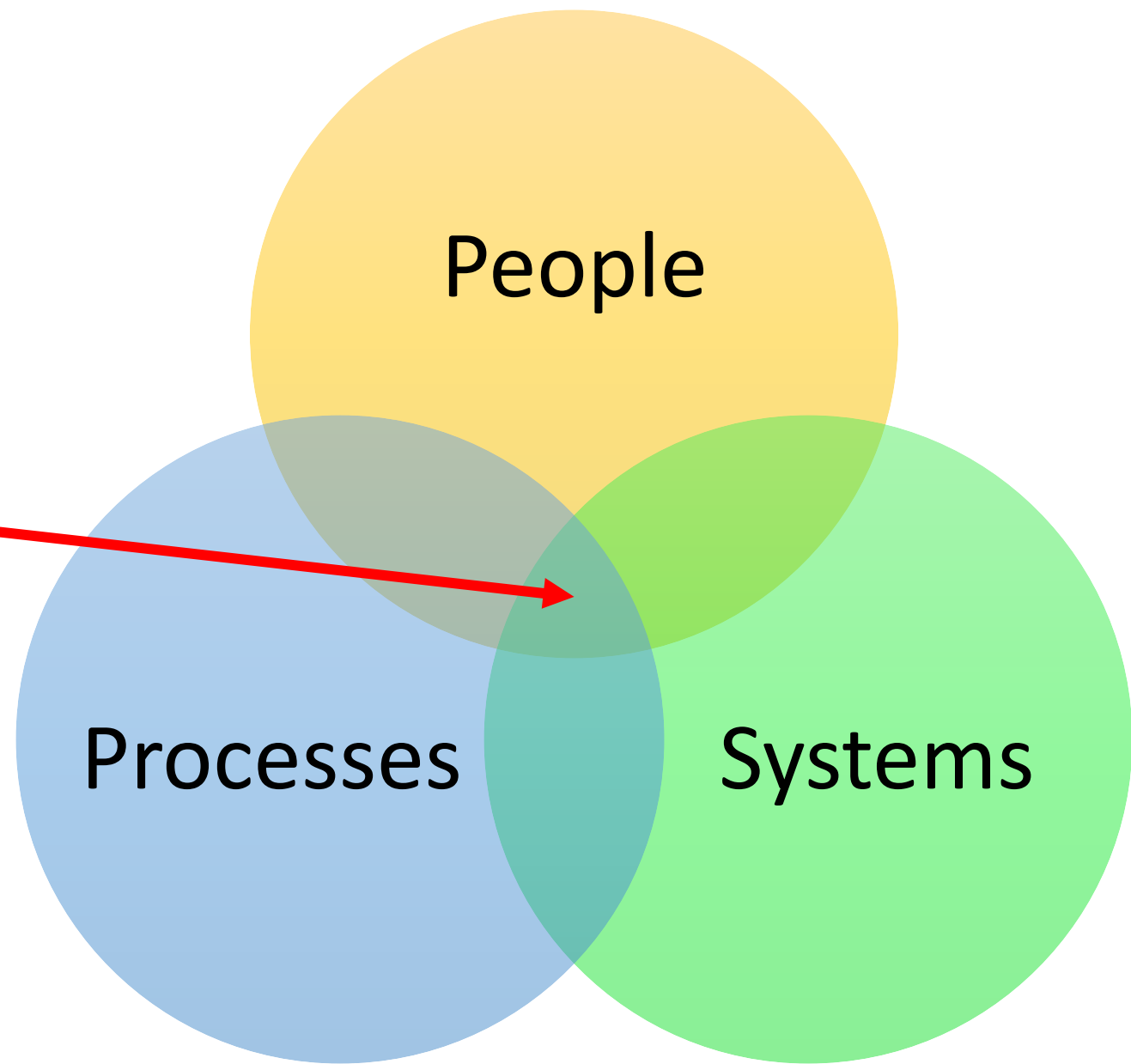
VS

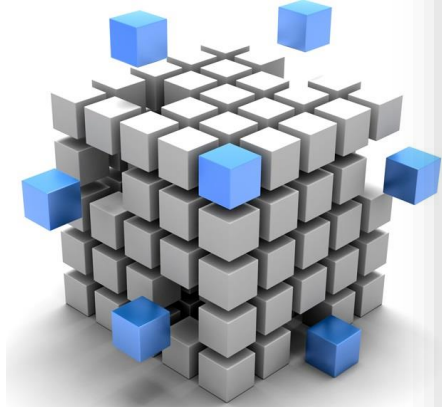


POV

PROOF OF VALUE

Will it save \$?
(financial)





NEW ANSWERS
TO
OLD QUESTIONS

NEW ANSWERS
TO
NEW
QUESTIONS

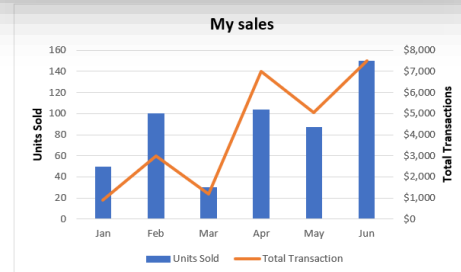


INNOVATION



OLD ANSWERS
TO
OLD QUESTIONS

OLD ANSWERS
TO
NEW
QUESTIONS





Volatility
Uncertainty
Complexity
Ambiguity



V

ision

U

nderstanding

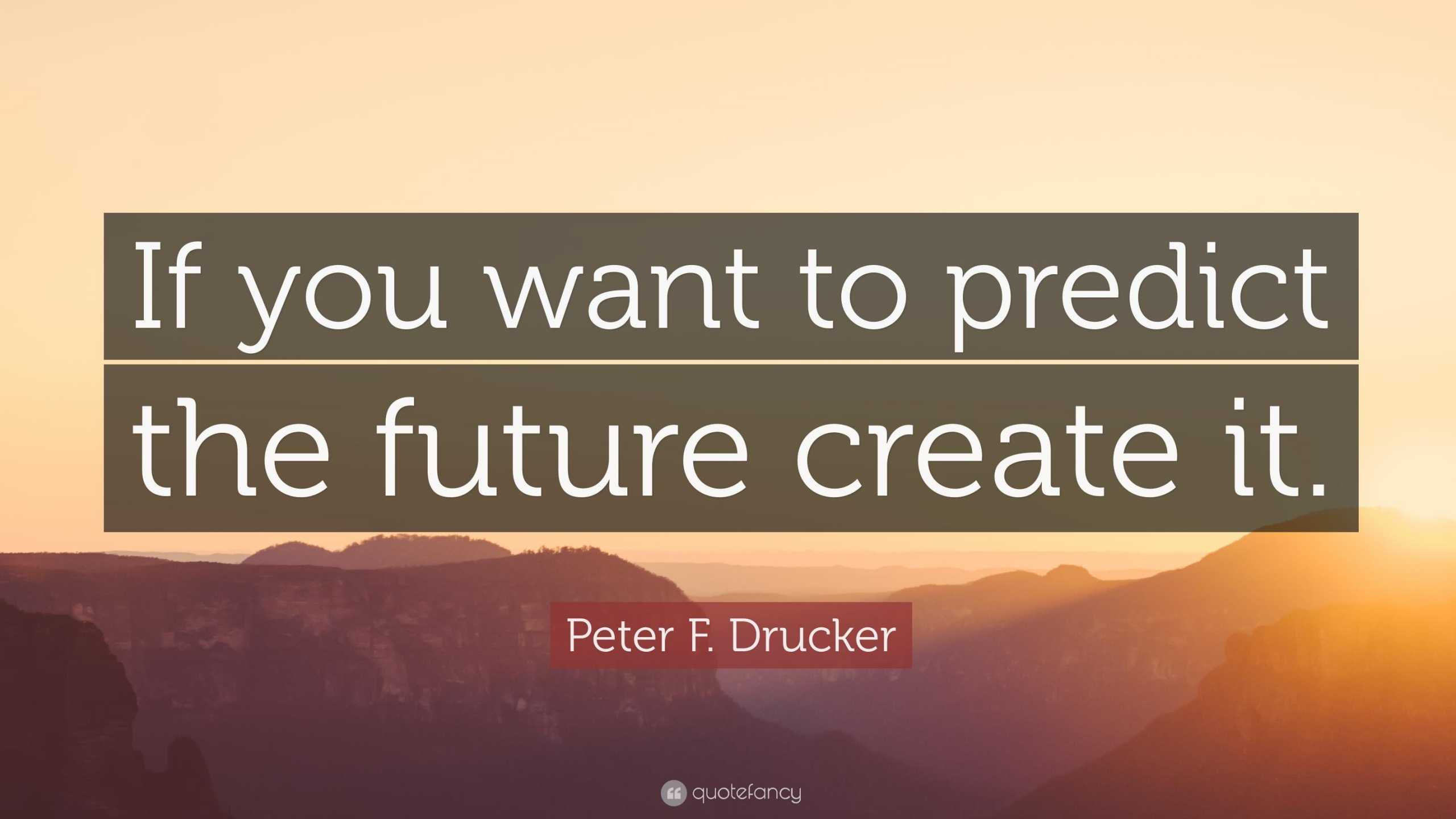
C

larity

A

gility





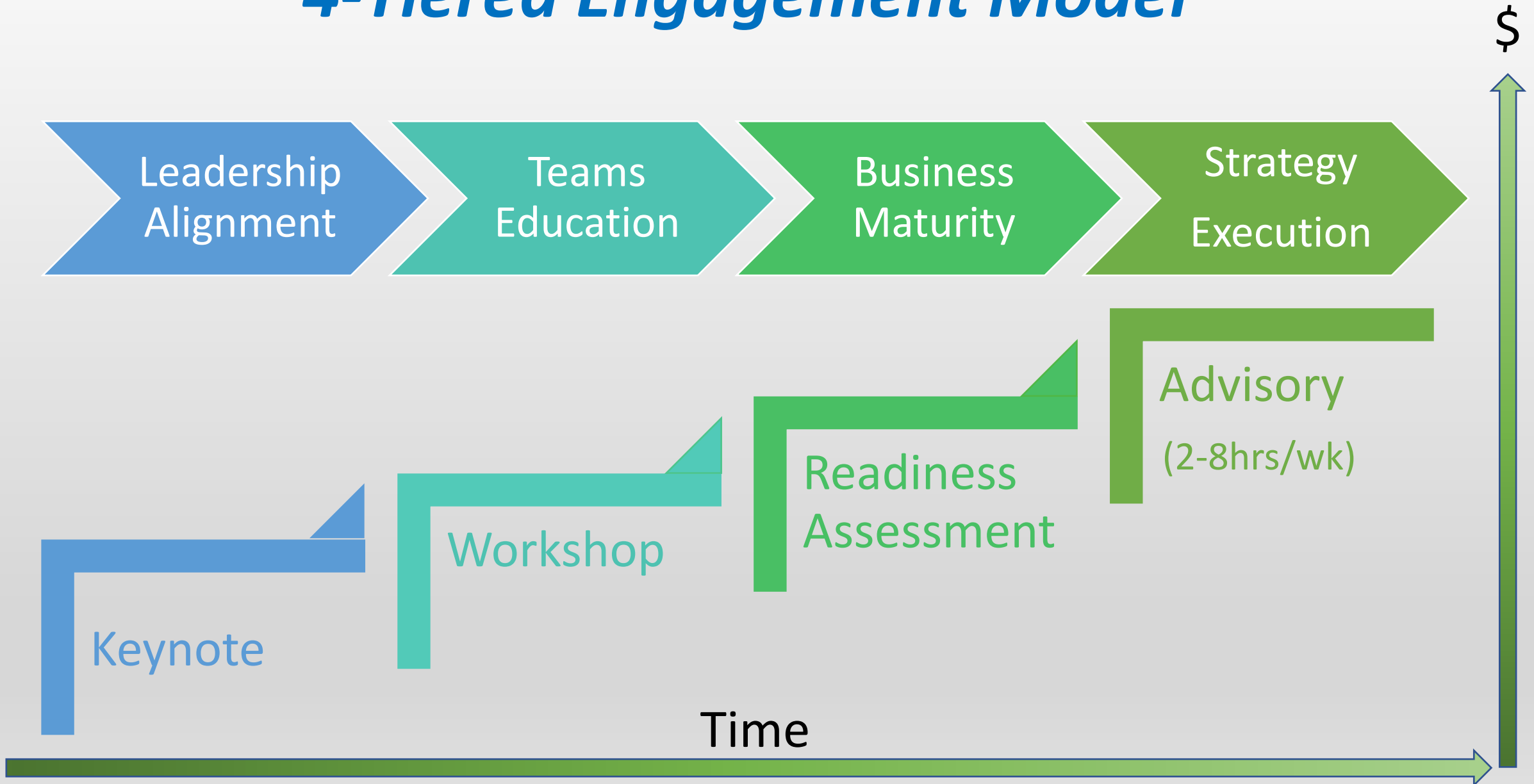
If you want to predict
the future create it.

Peter F. Drucker

A human skeleton is seated at a dark wooden desk, leaning back in a black chair. Its arms are crossed on the desk, and its legs are also crossed. The skeleton is looking directly at the camera with a neutral expression. A semi-transparent brown banner is overlaid across the middle of the image, containing the text "High cost of doing NOTHING!".

High cost of doing NOTHING!

4-Tiered Engagement Model





RealisePotential

**HELPING MANUFACTURERS
DO MORE WITH LESS**



John Broadbent

Industry 4.0 Educator ♦ Smart Factory Specialist ♦
Keynote Speaker ♦ Workshop Facilitator ♦ Mentor ♦
Advisory Board Member

Sydney, New South Wales, Australia

4K followers · 500+ connections



Realise Potential



**University of Technology,
Sydney**



Company Website

john@realisepotential.com.au

THANK
YOU

