

OCTOBER 2024

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# Genabyte: How to deliver value at scale – 9 practical takeaways

Driving digital transformation from strategy to value

Bram van Genabet, Digital Strategy Evangelist



# Driving digital transformation from strategy to value

Bram Van Genabet

Digital Strategy Evangelist



Digital transformations in manufacturing

2005  
Chemical engineering & Material sciences

2010  
Process & automation engineering

2014  
Advanced process control consultant

2015  
Project engineer

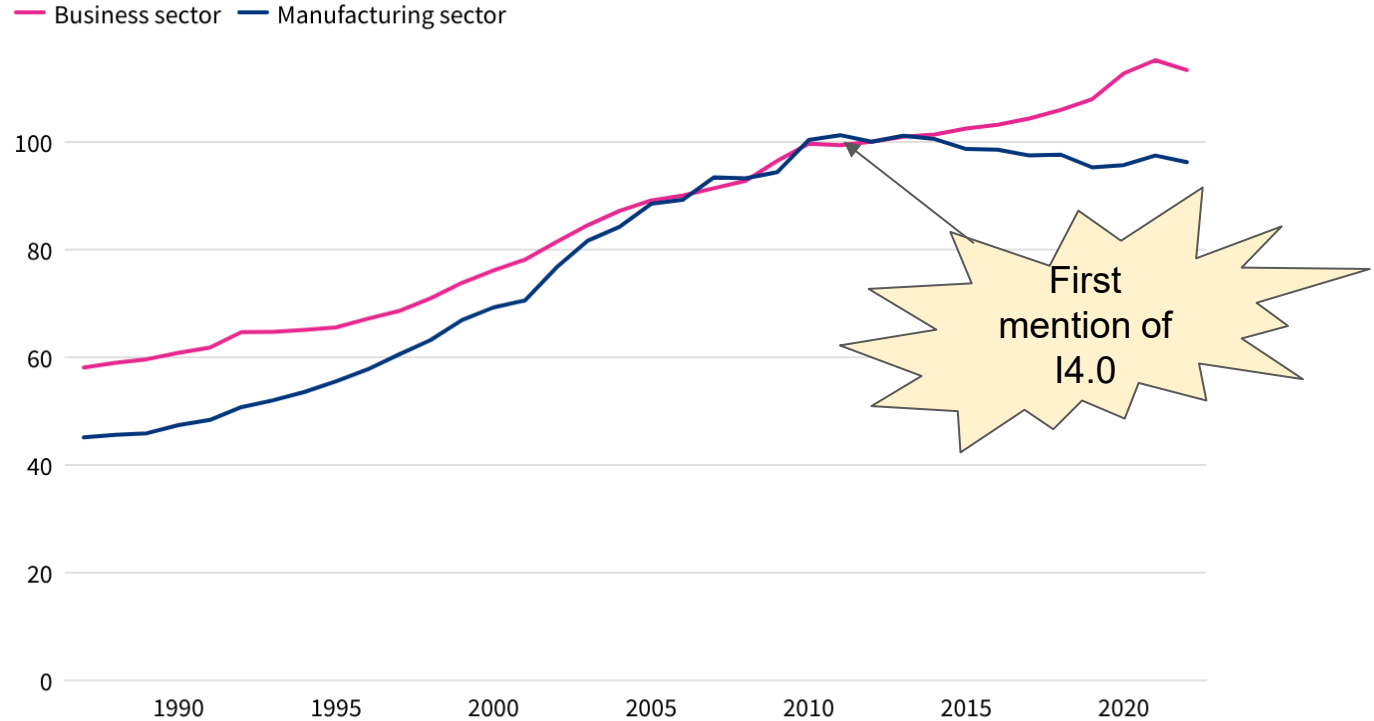
2017  
Digital innovation manager

2023  
Digital Strategy Director

2024  
Digital Strategy Consultant

## After experiencing steady growth since the 1980s, labor productivity in the US manufacturing sector dropped by 5% since 2011.

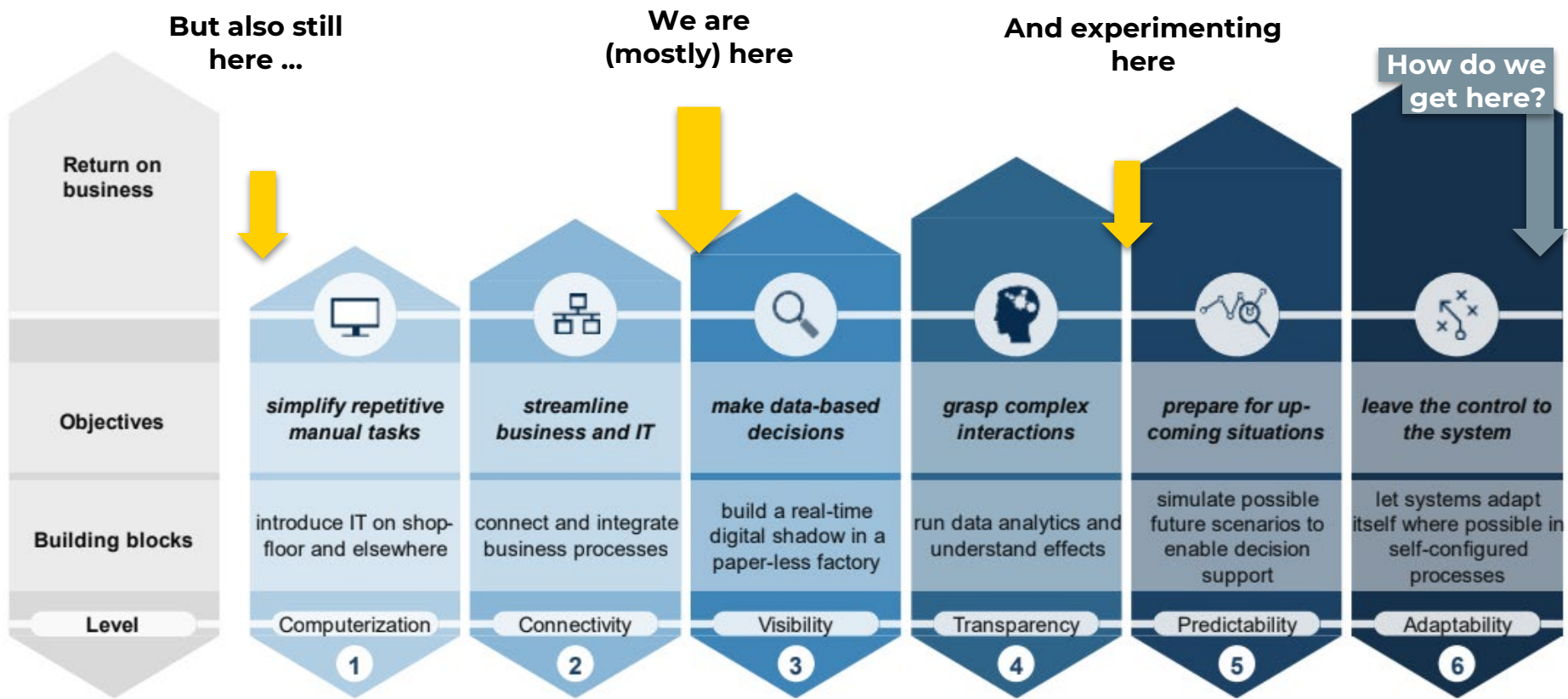
Labor productivity index, by sector, 1987-2022



Source: [Bureau of Labor Statistics](#)

**60-70%** of digital  
transformation  
projects fail to deliver  
the promised value

**What is I4.0?** – AI will accelerate the journey to deliver full closed loop control, but the bottleneck will be high quality connectivity, data and change management

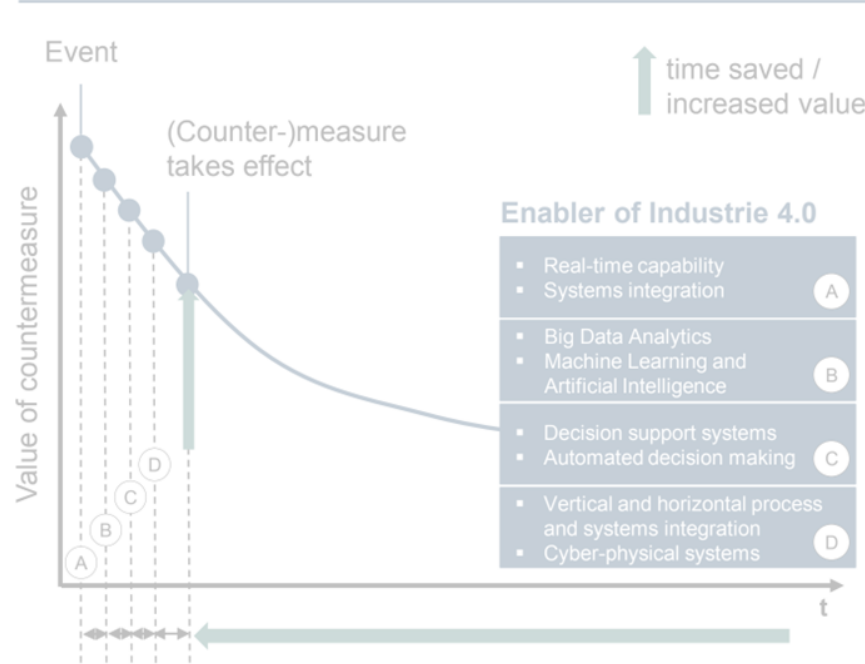


**Why I4.0?** - I4.0 facilitates rapid anomaly response and increased efficiency through integrated sensors, AI, and data analytics, enhancing value extraction from **value** streams. A successful digital transformation should aim to improve EBIT by at least 20%

### Typical reaction chain of traditional companies

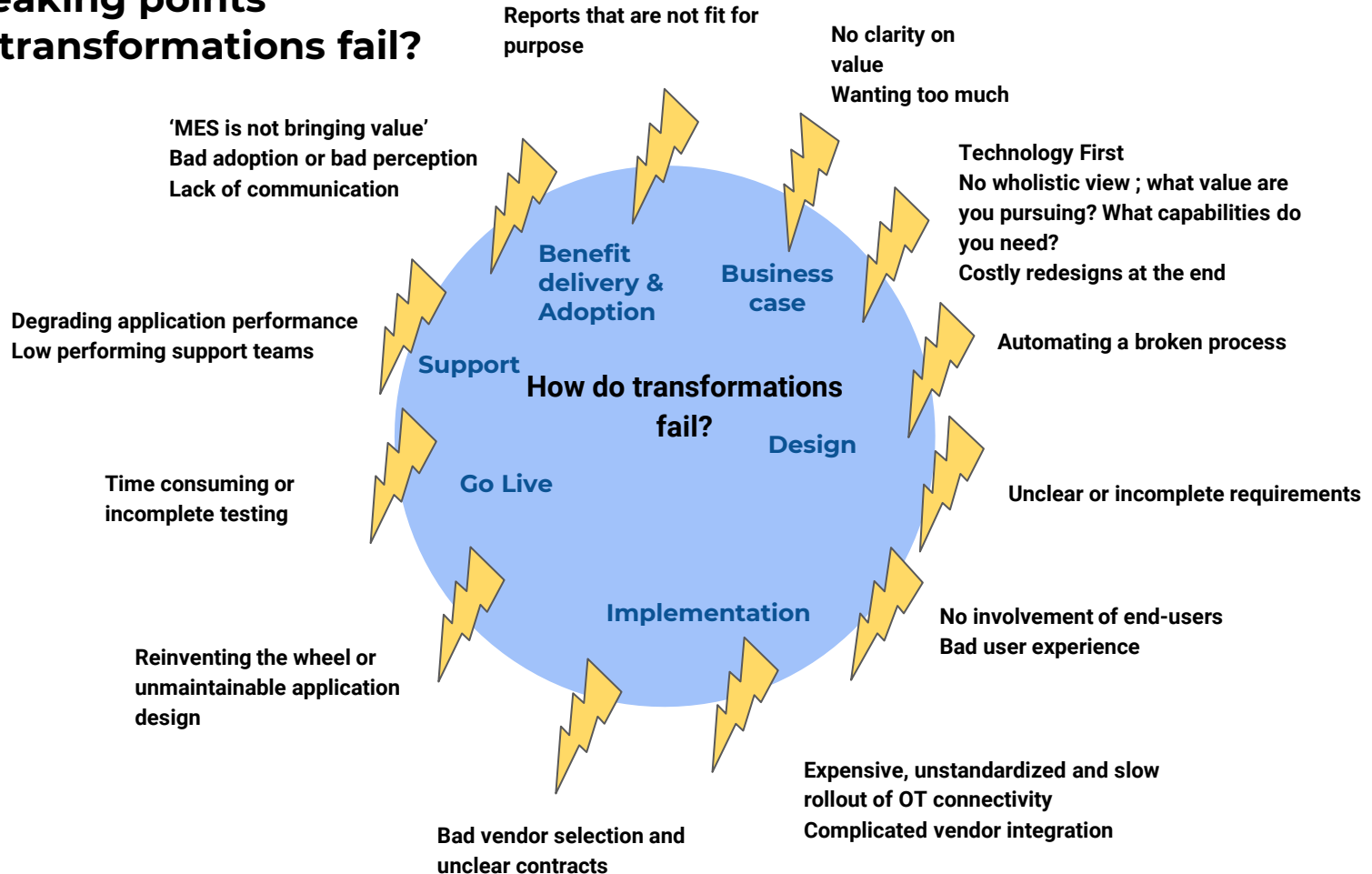


### Typical reaction of Industrie 4.0 companies

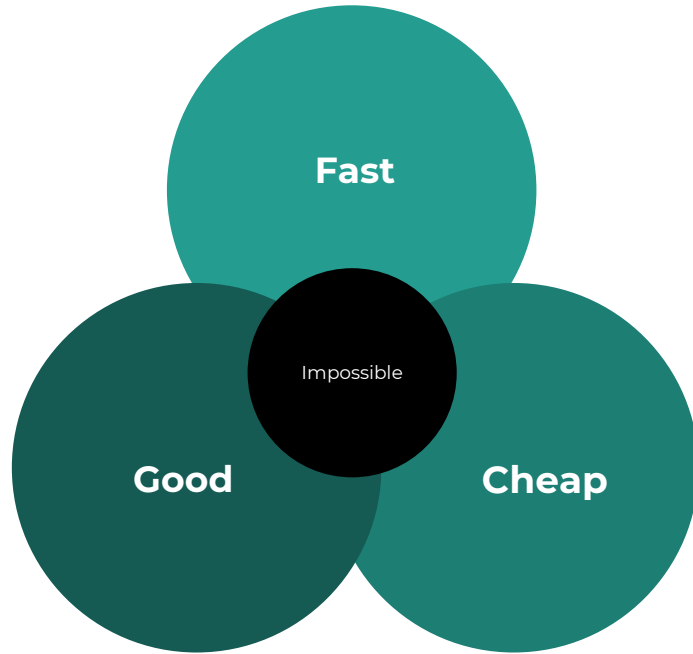


# 12 Breaking points

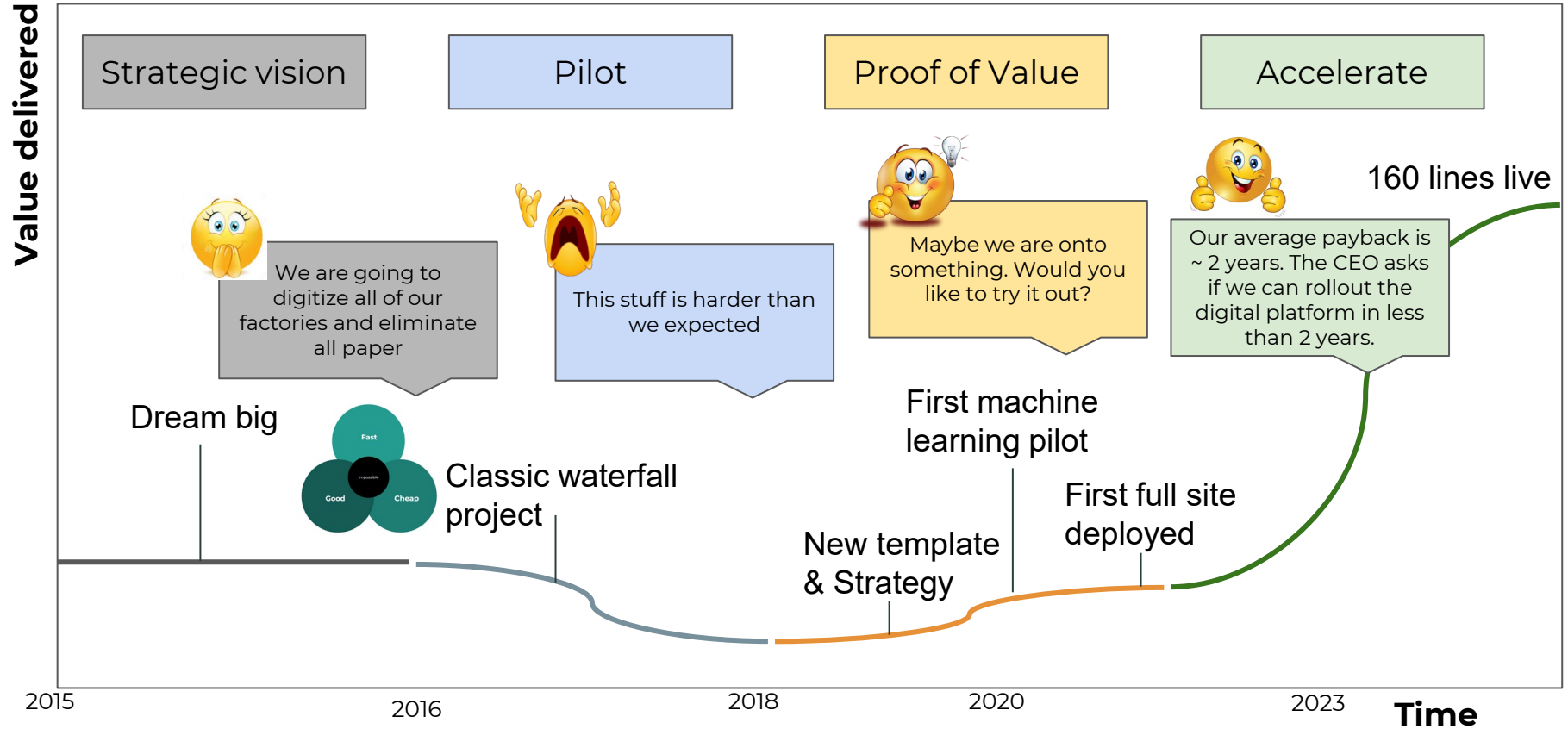
## Why transformations fail?





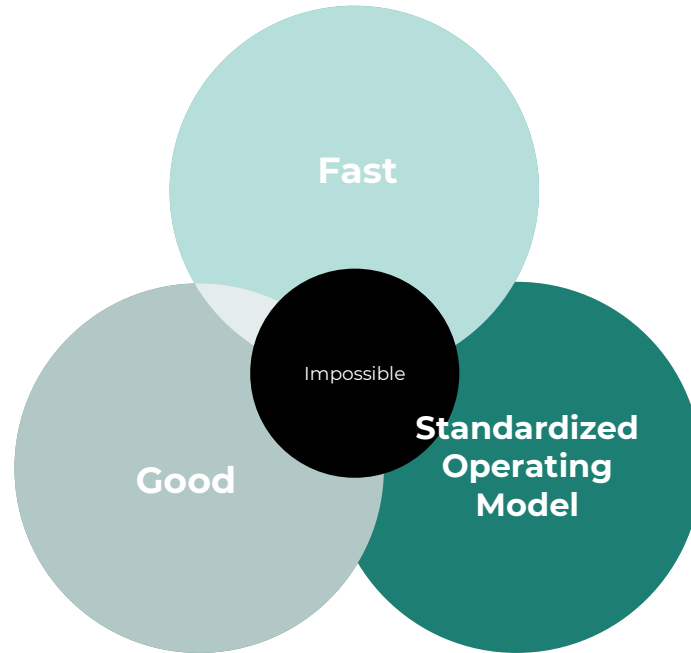


Value delivery in our digital transformation journey was like an **exponential growth** curve, it takes a long time to gain momentum, but scales fast when it gets traction.



# 1) Don't automate a broken process

Standardizing and simplifying processes should be done prior to automating complexity, but be wary of overfitting the standard



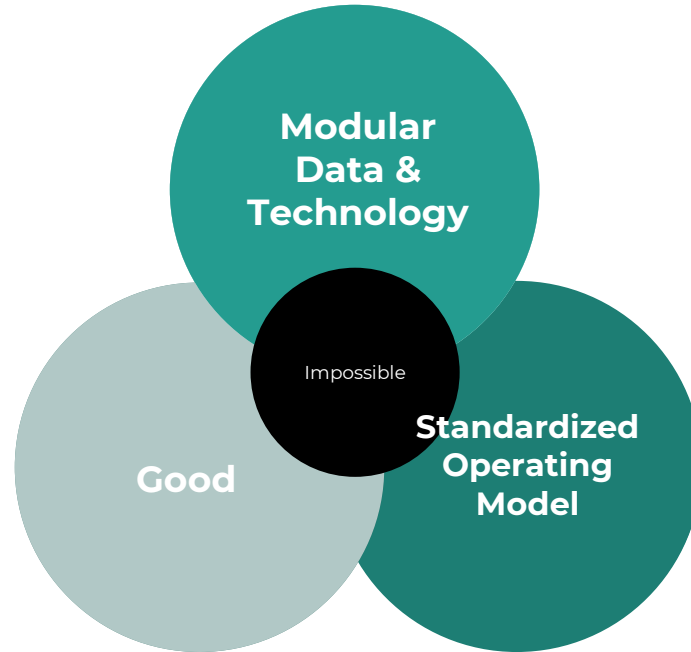
**Standardized process** – same way of work across factories. Eliminate complexity by design and simplify rollout across sites and enable easier knowledge sharing  
**Example : OEE Definition**

**Unified namespace** – model driven implementation will speed up future rollouts and bring benefits of scale. We roll out new reports in hours instead of months now.  
**Tool : Naming Convention**

**Template driven** –TCO for maintenance and feature development will be reduced vs. having to handle multiple exceptions

## 2) Fail forward

Gain speed by implementing technology in an agile – modular way with strong focus on data quality able to deliver quick-wins and tangible improvements



**Agile** – E2E application design combined with modular deployment and quick user feedback cycles to ensure validation □ ‘fail forward’

**Continuous data improvement** – Data quality will be a challenge Data does not need to be 100% correct to bring value (e.g. Trend can bring insights) but data should not be trusted 100% either (drift / calibration / human errors ...). A plan to continuously improve data is critical. Requires **data ownership**

**Data availability** – Not all data will be digitally available, but full autonomous control will require a digital shadow of all controlled parameters. The requires continued investment

# Value extracted is directly proportional to having good data **AND** doing something with this data



Value extraction depends on

1. Data quality, availability & timeliness
2. What you do with this data

1. Identify constraint
2. Capture loss information

1. Pick a top loss
2. Decide countermeasures

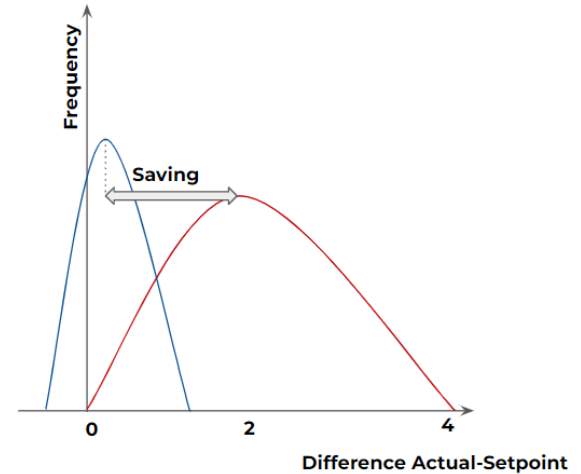
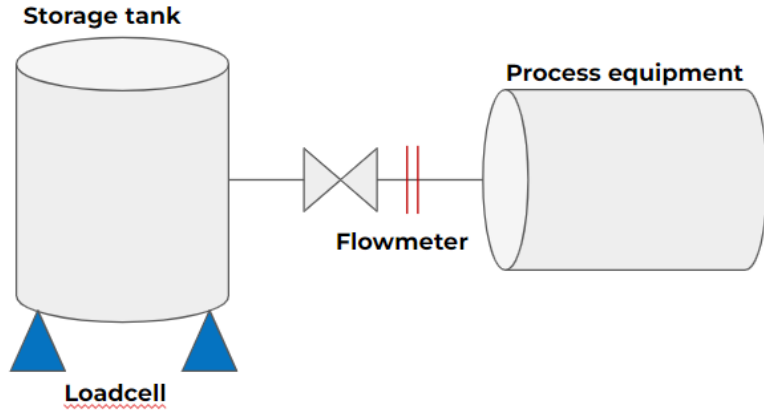
1. Implement countermeasures
2. Capture what you learned

Poor data quality → Wrong decisions → Incorrect actions → Poor results

No one to analyse the data → No insights → No actions → No results

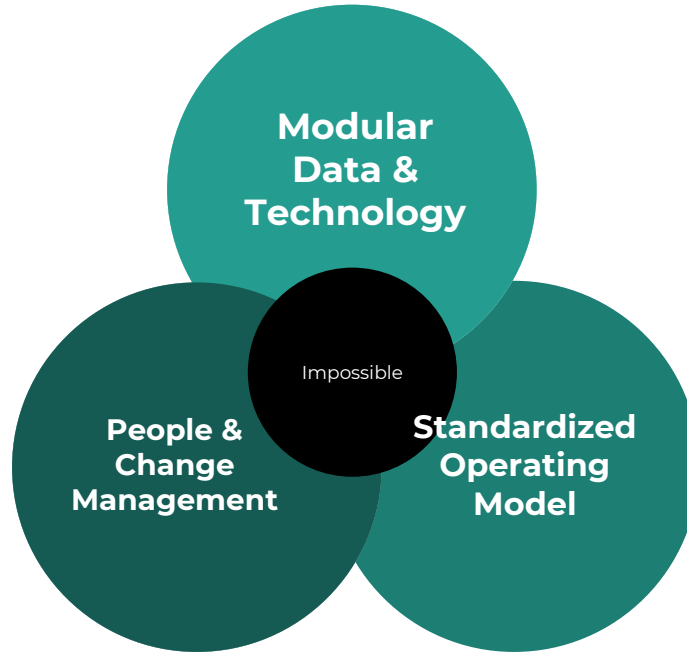
The **value delivery formula** requires access to right information with talent able to conduct the analysis.

1 use case can pay for the entire digital transformation project



### 3) User centrality is key

Success comes from adoption which requires a strong focus on change management, talent and UI/UX



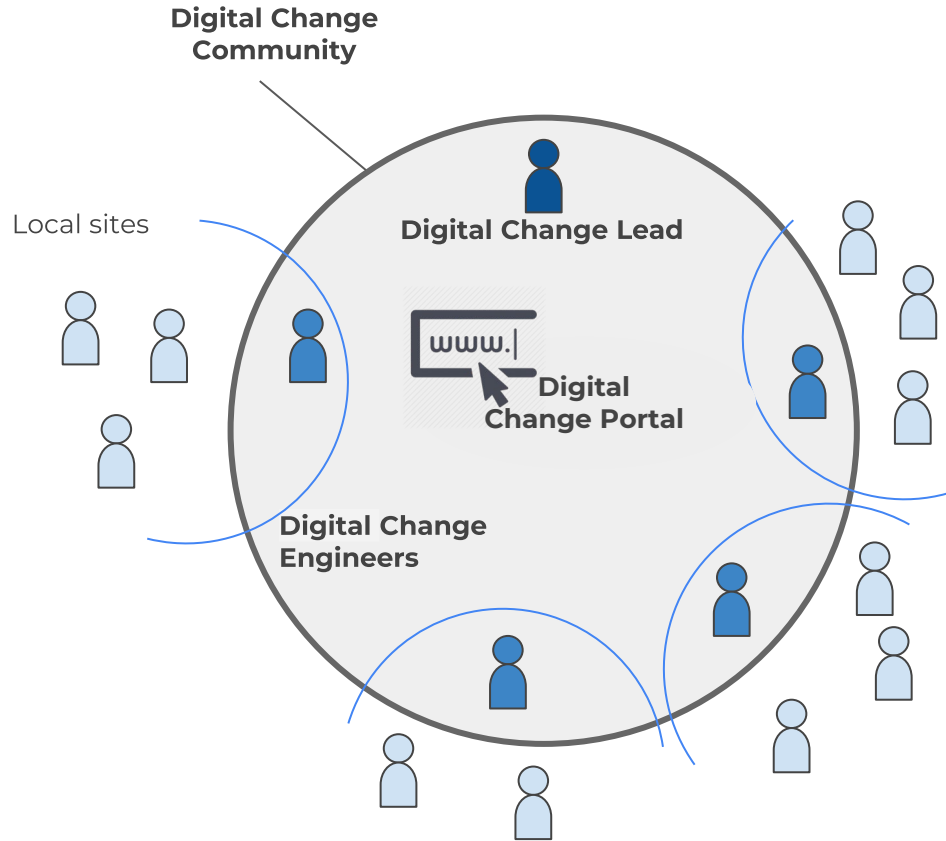
#### **Change management** –

Dedicated digital change agents are the face of the digital transformation on the shopfloor. Communities are in place to share best practices

#### **Talent** - $V = I * D * A$

Results = information \* decision \* action. Without people able to analyse the new available datastream the result will be 0.

**UI/UX** – Successful digital applications need to feel like an improvement for the end-user. If it takes longer than the former paper-based process it's already a lost cause.



**Local proximity & ownership** – dedicated digital change engineers act as change agents in close proximity to the shop floor operations making sure issues get resolved timely, adoption is successful and the benefit case delivery is accelerated

**Knowledge sharing** – open communication about best practices, challenges, success stories, troubleshooting, standards ...

**Community building** – Digital change lead brings teams together allowing benefits to scale better

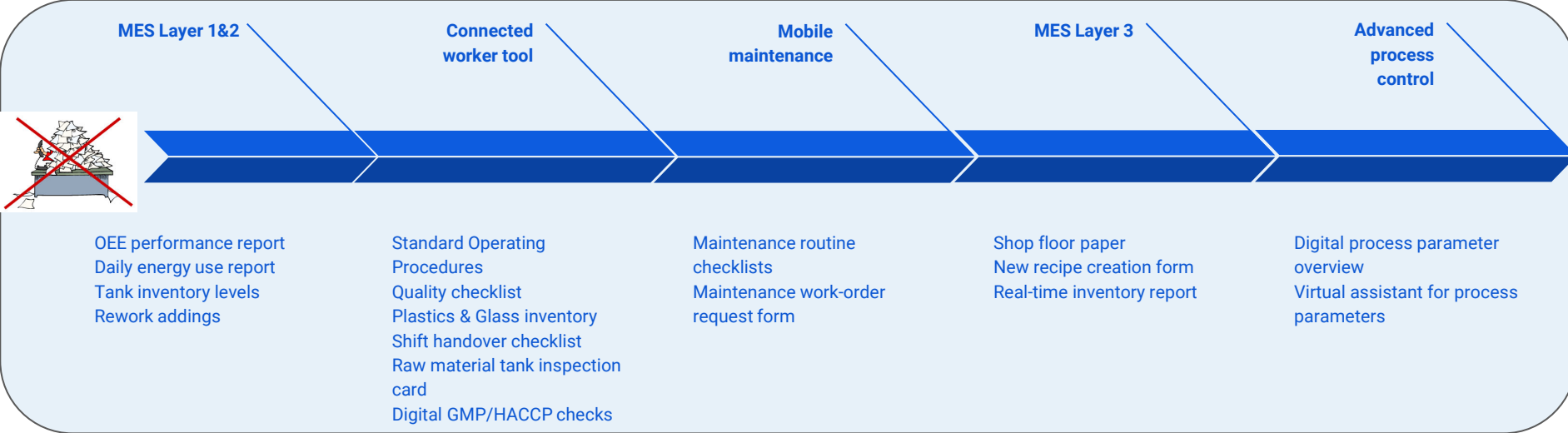




# Going paperless is not a 1-shot exercise but rather a multistep journey



Example report digitalization roadmap



# Celebrate your successes, it's a long journey

MES 1 year, Philadelphia, USA



Melbourne, Australia



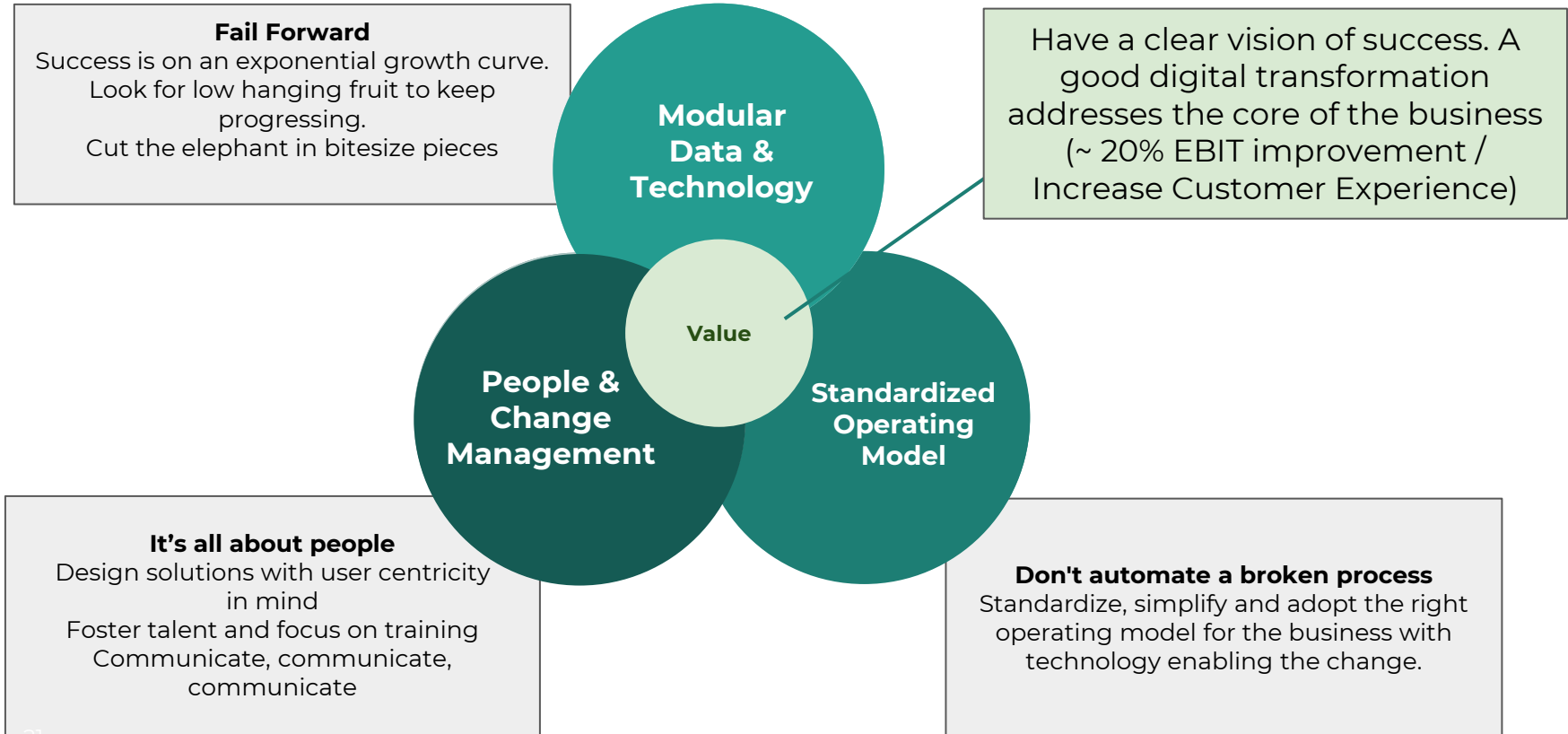
Go Live Ceremony, Singapore



It's about process, people and technology.  
But it's mostly about people !



A successful digital transformation requires a combination of standardized operating model with a core focus on people & change management supported by data & technology



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