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# Moving Laggards to Early Adopters (Maybe even innovators)

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## Moving Laggards to Early Adopters (maybe even Innovators)



Krish Suryanarayan -Expert - Digital Manufacturing (Operations Practice), McKinsey & Company The presentation will focus on what happens when technology is implemented, or processes are changed, and subject-matter experts (SME) are not engaged soon enough.

Most organizational models over time devolve into siloed organizations. As PLM tools function as a repository of product and process information and a backbone for moving information, organizations often have the infrastructure to exchange product and process information across the enterprise if infrastructure, data models, and stakeholders allow.

Yet, organizational change that involves altering ingrained processes and practices is often met with resistance and a lack of adoption. Modern enterprises require technically detailed, complex PLM solutions and methods to support increasingly complex products.

## Overview of Challenges with Technology Implementation in Manufacturing





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Strategic alignment of technical solutions with business imperatives



# **Technical Solutions**



Business case development

Lack of discipline in tying business value to project proposals



# Globally common solution platform

Globally uncoordinated technology selection and implementation.



#### Supplier engagement

Lack of a formal process to build relationships with suppliers, employ technology scouts to scout for innovations and make the make/buy decision



Ideation process and solution pipeline

Ad hoc approach to idea solicitation, generation

Governance model with executive alignment with plan and deliverables

# Management Infrastructure



#### **Executive alignment**

Lack of support from executive leadership and lacking in positive intent

#### Siloed, Decentralized and uncoordinated

Lack of centralized roles to coordinate ideation and implementation across functions, regions and org structures

Overlapping roles that create fuzziness on ownership and accountability



#### Implementation management

Lack of accountability on deliverables; misalignment of KPIs between involved organizations (e.g. IT and engineering)

## **Mindsets and Behaviors**



# Technology first instead of value first

Leaders and SMEs are drawn more to the latest technology instead of digging deeper into the business benefit



#### Technology averse

Leaders averse to technology that they are unable to comprehend.

Equate technology with increased complexity and focus disproportionately on the pitfalls Resistance to change

Shift in spheres of influence and changing roles and responsibilities

# **Digital Manufacturing**



McKinsey recently conducted its 2018 Global Industry 4.0 Survey across 7 key markets

## Survey key facts

>700 qualified respondents from medium and large companies

Spanning all major industry sectors

7 key markets (Brazil, China, France, Germany, India, Japan, US)



## Respondents cited Digital Manufacturing as a high priority on the majority of company agendas

How much of a priority is Digital Manufacturing on your company's agenda?, Percent





# Optimism around Digital Manufacturing seems to be continuing to grow although some are becoming frustrated with challenges

To what extent has your view concerning the potential of Industry 4.0 changed compared to 1 year ago?, percent



Average increased optimism = 43%





More optimistic
Less optimistic
Unchanged

Is overconfidence slowing progress? Most organizations think that they are ahead of, or at the same level as, their competitors

How do you feel you are placed relative to most of the competitors in your industry with respect to implementing and capturing value from Digital Manufacturing?, Percent





Average on same level or ahead: 92

The majority of companies say they have already successfully conducted at least one Digital Manufacturing pilot, however few have moved to roll-out

At what stage are you in adopting specific Digital Manufacturing solutions in your company?, Percent





High relevance of Digital Manufacturing Solutions across three use case types with many pilots underway



Lacking impact at scale of these relevant solutions with only ~25% in companywide roll-out

3 dimensions to escape 'pilot purgatory' and ensure sustainable value capture and business transformation





Technology setup

Value Driven

Strategic view on technology



Organizational prerequisites

Governance model with C-suite alignment and push

Focus on value rather than going after 'shiny objects'



# **Business value**

Be value-back not technology-forward: create a prioritized roadmap and associated business case

Develop a compelling strategic vision and early 'lighthouses' to inspire the organization

Communicate the vision across the value chain and develop influential evangelists to support the vision and implementation

Agile technology development that 'fits' with the strategic narrative



# Technology setup

Be selective what technology to build in-house vs. partnering with others

Build capability to test and iterate solutions in an agile manner

Ensure alignment of technologies with the strategic imperatives of the organization and the KPIs that are targeted for improvement C-suite-driven with clearly defined and communicated governance model



Drive transformation from the top with clear business ownership

Lock in benefits to the bottom line through capability building and business process change

# Thank You!