((C)) EADING PRACTICE We set the Enterprise Standards!

GLOBAL UNIVERSITY ALLIANCE Researching Best & Leading Practices | Developing Standards

Industrial Revolution and changes impacting organizations

Best Practice and Leading Practices in how to tackle change

Presenter: Prof. Mark von Rosing

Prof. Mark von Rosing Professor | Modelling & EA Guru | Business Transformation Evangelist |...

Executive	Main	Take	((c)) EADing Practico
Summary	Subject	Away	













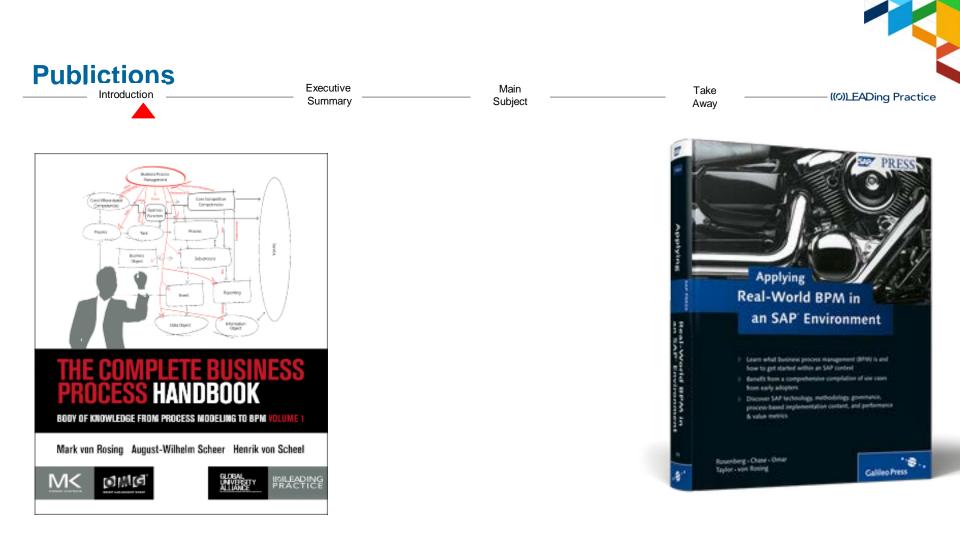


Prof. Mark von Rosing is in every way an innovator affecting standards, frameworks, methods, and approaches internationally. In1999, he founded the Global University Alliance (GUA), an international consortium of +450 university lecturers and researchers whose aim it is to provide a collaborative platform for academic research and analysis leading to the creation of de-facto enterprise standards.

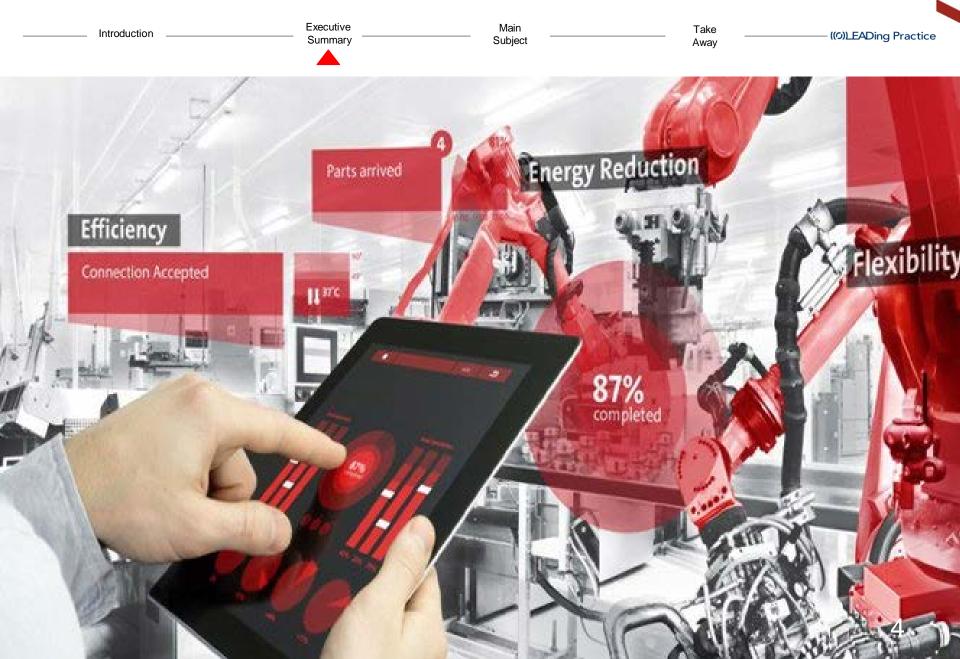
He has been involved of developing 96 Enterprise Standards and 55 Industry Standards. Founder of 'LEADing Practice" the Enterprise Standard body, and also has had a significant or primary role in developing standards in the following standard bodies:

- World Wide Web Consortium (W3C): lead the World Wide Web development to its full potential by developing protocols and guidelines that ensure the long-term growth of the Web/Internet.
- **ISO:** coordinating the development of international standards among various national standards organizations. Currently focused on are ISO 42010, the Systems and Software Engineering Architecture Description, and ISO 279, the Innovation Standard.
- **CEN:** the European Committee for Standardization (CEN, French: Comité Européen de Normalisation). Developing and maintaining coherent sets of standards and specifications across the thirty-three member countries. More than 60,000 technical experts as well as business federations, consumer, and other societal interest organisations are involved in the CEN network that reaches over 460 million people.
- NATO: the North Atlantic Treaty Organization; developing standards for the intergovernmental military alliance organizations. Strategy and Performance Management is used for the collective defence joint mission execution, both in mutual defence in response to an attack by any external party as well as for peacekeeping missions. In addition, the standards from LEADing Practice related to capability modelling, joint Business Process Execution and Enterprise Architecture are used as basis for NATO standard development i.e. the NAF 4 (NATO Architecture Framework).
- Energetics: Development of the energy standard body, Energetics, Prof. von Rosing is part of developing the energy standards used by countries and companies around the world. This includes the standards used by the upstream oil and gas organizations; providing improvements for their business models, performance concepts, and process and data models.
- The Information Security Forum (ISF): development member of the Information Security Forum
- Object Management Group (OMG): develop joint standards between OMG and LEADing Practice. This includes:
- Value Delivery Modeling Language (VDML), Business Motivation Modeling (BMM), Business Process Modeling Notations (BPMN), Decision Model and Notation (DMN) and Risk & Threat Modeling
- SAP AG Method developer e.g. ASAP, SAP Agile, BPM, Enterprise Architecture (EAF)





Trends (Forces & Drivers)





Energy Reduction

87%

completed

Organizations around the world are adapting to various trend drivers, market forces, macro-economic forces and industry forces

Connection Accepted

The changes are so big that there is a need for both transformation as well as innovation for most organizations

Flexibility

Industrial Revolution Phases: The 1st Industrial Revolution

Summary

Subject





Introduction _

First mechanical loom

1. Industrial Revolution Follows introduction of water- and steampowered mechanical manufacturing facilities

Industrial Revolution Phases: The 2nd Industrial Revolution Executive Main



Introduction _

Summary

Subject

Take Away

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First production line, Cincinatti slaughterhouses



First mechanical loom

1. Industrial Revolution Follows introduction of water- and steampowered mechanical manufacturing facilities

2. Industrial Revolutior Follows introduction of electrically-powered mass production based on the division of labour

1784

Industrial Revolution Phases: The 3rd Industrial Revolution

Summary

First production line,

Cincinatti slaughter-

2. Industrial Revolution Follows introduction of electrically-powered mass production based on the division of labour

houses

Take Away

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Subject

First programmable logic controller (PLC), Modicon 084

3. Industrial Revolution Uses electronics and IT to achieve further automation of manufacturing



Introduction _

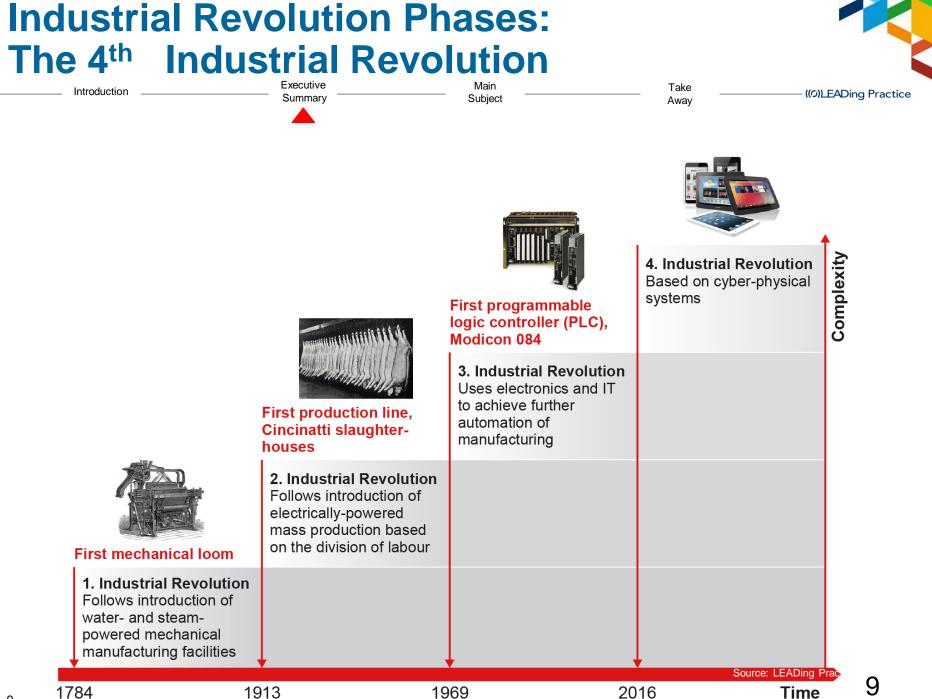
First mechanical loom

1. Industrial Revolution Follows introduction of water- and steampowered mechanical manufacturing facilities

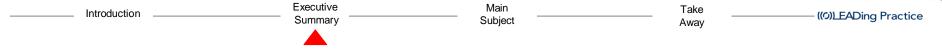
ring facilities

1913





The game is changing – how do we adapt?



When compared with previous industrial revolutions, the Fourth is evolving at an exponential rather than a linear pace.

Efficiency

The emerging technology breakthroughs in fields such as artificial intelligence, robotics, the Internet of Things, autonomous vehicles, 3-D printing, nanotechnology, biotechnology, materials science, energy storage and quantum computing.

Energy Reduction

completed

Organizations around the globe are asking themselves how to adapt in both people competencies, services, products processes and technology. Key Findings: SHOULD DO, WANT TO DO and CAN DO

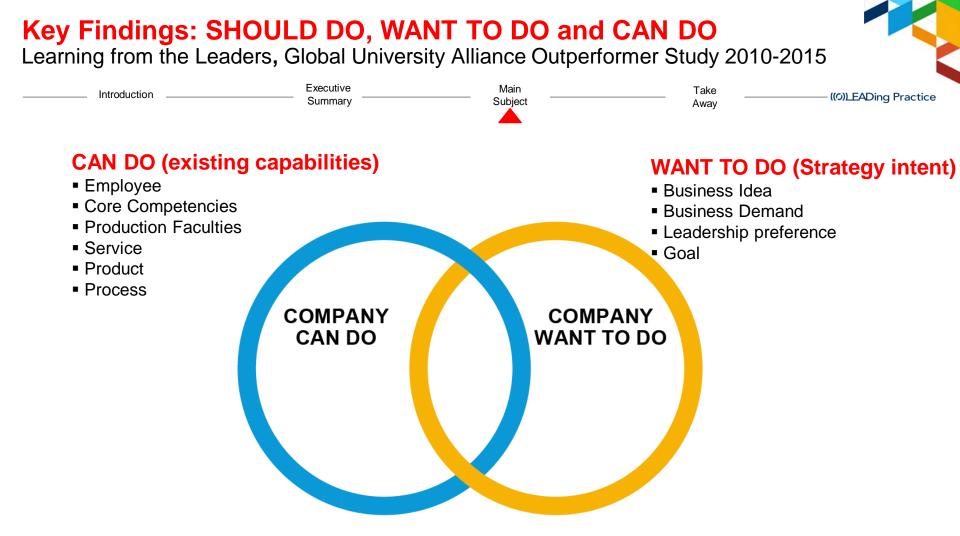
Learning from the Leaders, Global University Alliance Outperformer Study 2010-2015



CAN DO (existing capabilities)

- Employee
- Core Competencies
- Production Faculties
- Service
- Product
- Process

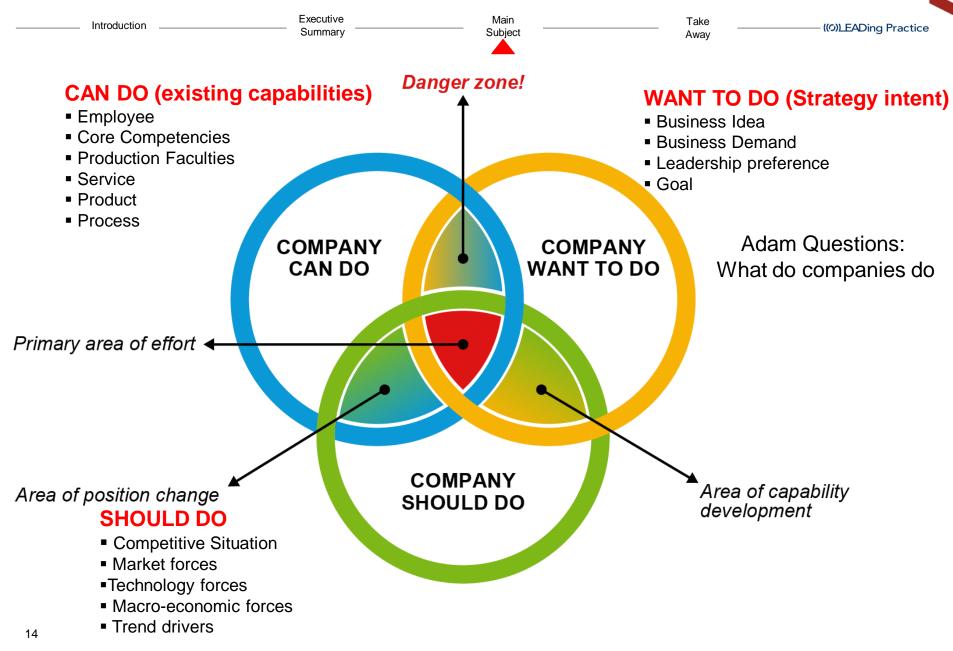
COMPANY CAN DO



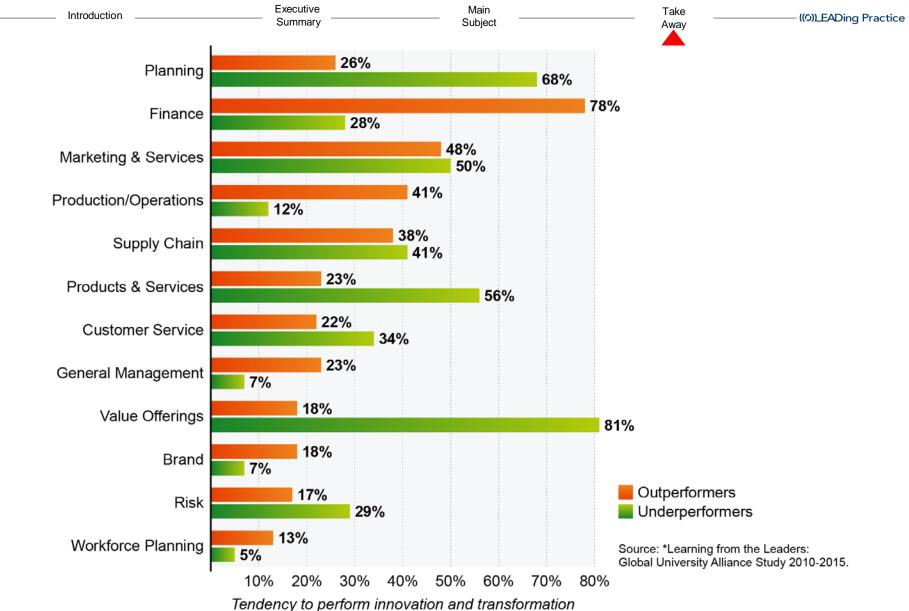


Key Findings: SHOULD DO, WANT TO DO and CAN DO

Learning from the Leaders, Global University Alliance Outperformer Study 2010-2015

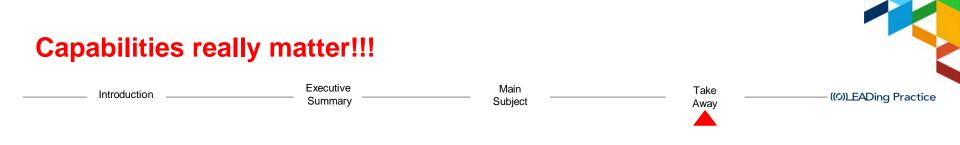


<u>What</u> is it leading organizations actually do around capability development:





Tendency to perform innovation and transformation



Capability: A capability is an abstraction that represents the ability to perform a particular skill set. In organizations this would be organizational capabilities, directional capabilities, service capabilities, information capabilities and technology capabilities

CAPABILITY										
DIRECTIONAL DIMENSION Command & Objectives Policy & Rules	DIMENSION	DIMENSION	DIMENSION	DIMENSION Steps & Activities	DIMENSION Service Construct	DIMENSION	TECHNOLOGY DIMENSION Platform Infrastructure			

((0)LEADing Practice Capability Modelling Reference Content [LEAD-ES20017AL]

So how to work with capabilities??

Introduction	Executive Summary	Main Subject	Take Away	((0)LEADing Practice
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Global University Alliance research around capabilities and the relationship to:

- Strategy
- Business Model
- Products
- Services
- Operating Model
- Etc.

http://www.globaluniversityalliance.net/research-areas/enterprise-capabilities/

Next slides will be about:

- <u>What</u> is it leading organizations actually do around capability development
- <u>Where</u> is it leading organizations do capability development



Session 1: Introduction to Enterprise Capability concepts

- What is a capability?
- How are they used in an enterprise context?
- What can you do with capabilities?

Session 2: Advanced Capability Modelling & Capability Architecture

- The value of modelling capabilities?
- How to do capability modelling?
- How to do capability in the context of enterprise architecture?

Session 3: Capability Management

- How to do management capabilities?
- How can you develop your Capabilities?
- ¹⁹ <u>http://www.globaluniversityalliance.net/research-areas/enterprise-capabilities/</u>



Global University Alliance

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BUSINESS LAYER							APPLICATION LAYER				TECHNOLOGY LAYER				
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