INC INVENTION CENTER

„We create world class **innovations**“

#WeKnowWhy

WHY

Competitive advantage through sustainable and intelligent innovations

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Our INC image film
https://bit.ly/welcome-2-the-INC

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”Solutions with impact need more than happy engineering“

Dr. Myron Graw
Executive Director
Sustainability

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”The secret of success is new business development“

Anne Loos
Executive Director
Artificial Intelligence

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„Technology rocks

but people“
make the difference

Patrick Kabasci
Executive Director
Digital Operations

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”Start to make

and don’t
forget to finish“

Dr. Stefan Thomas
Executive Director
Products & Ventures

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”We lead you

toward an intelligent
and sustainable future“

Toni Drescher
Founder & CEO

Our Objectives

We Create World Class Innovations

INC INVENTION CENTER

1. **Differentiation: Successful implementation**
   Global ecosystem for the implementation of innovations

2. **Time-to-Market: Speed**
   Rapid implementation of innovations

3. **Effort: Reduction of development costs**
   Access to experts and experienced implementation teams

INC Invention Center in Figures

Solution Provider for Successful Implementation of Innovations

INC INVENTION CENTER

6
global hubs with
>100
excellent team player

10
portfolio companies
with
30 Mio. €
turnover
contribution

3
successful exits of
initiated technology
ventures

>100
annual trainings with
>1,500
participants

>450
satisfied
customers from over
10
countries

>200
customer-specific
assessments
50
Implementation &
R&D projects

WHAT

We industrialize technologies with business impact

Deep Application Knowledge Meets Targeted Technology Expertise

Sustainability by Means of Technologies as a Differentiating Factor

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Sustainability

- Sustainability Radar: Scanning & Scouting for production, material & energy technologies
- Sustainability Navigator: identify action fields
- Sustainability Assessment: Define strategy & roadmap
- Systematic technology evaluation and selection
- Continuous implementation & transformation support

Digital Operations

- Support of the digital transformation from conception to implementation
- Technology scanning & conception
- Roadmapping
- Piloting
- Support for scaling and roll-out of Industry 4.0 in the production and supply network

Artificial Intelligence

- AI Navigator
- Customized AI Use Case Ideation
- AI Maturity Assessments
- Data Testing & Cleansing
- Prototyping
- Scalable Implementation
- AI Academy
- Seeker & Solver Community

Innovation Excellence

- Technology and innovation strategy
- Process and organizational design
- Innovation bench-marking
- Incubator conception and design

Products & Ventures

- Venture building and start-up development
- Implementation of hardware-software combinations
- Technology, product implementation and business development of innovations

Development and implementation of innovations

Automotive: Last mile delivery

Electrical Streetscooter for DHL

Security: Dronefence GmbH

Commercial Drone Defense System

Concept, design, engineering and production a drone defense system for security in airports, prisons or any other endangered populated areas.

Life Science: VIPRO GmbH

Artificial Intelligence based Platform to Cover PPE Demand of Hospitals

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» The lack of supplies undermines the entire global effort to stop the spread of COVID-19. «

Tedros Adhanom Ghebreyesus, Generaldirektor, WHO

Gastronomy: TableQ GmbH

Personalized Contact-free Ordering and Payment System

Trade: Meraxis AG (R&D contract)

Conception and Establishment of Material Commerce

Digital Operations: LabV Intelligent Solutions GmbH

Lab Automation for Material Testing (Cycletime Reduction & OEE Increase)

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HOW

Connection to cutting edge research
Vertical knowledge in focus areas
Understanding of market requirements
Business and venture development

6 Key Elements for Successful Implementation of Innovation

Start to make and don‘t forget to finish

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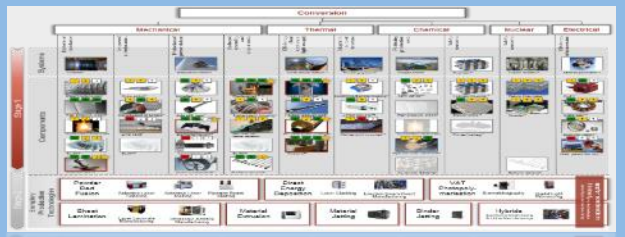
Innovation Labs

Technology Labs



Market Labs

Discovery & Observation → **Ideation & Exploration** → **Prototyping & Development** → **Market Launch & Aftermarket**

Global Network

Training & Recruiting

Smart Hardware Accelerator

Industrial INC-Community

Our Cross Industry Innovation Network

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JOHN DEERE
Miele
3M
BASF We create chemistry
brose Technik für Automobile
thyssenkrupp
ROSEN empowered by technology
PH MECHANIK
VATTENFALL
SAINT-GOBAIN
+GF+
VOSS
THIELE
DAIMLER
Endress+Hauser People for Process Automation
LTS TRANSDERMAL. MARKETLEADER.
P&G
BAYER
DND
covestro
GEA
EATON
NETZSCH Proven Excellence.
SICK Sensor Intelligence.
HILTI
THALES
MACS Miltenyi Biotec
FREUDENBERG INNOVATING TOGETHER
RAUMEDIC Lifeline to Health
Stackpole International
DLR
SIG
viega
RHEINMETALL
MERAXIS
CEROBEAR ceramic bearing technology

Current INC Membership Conditions

Be Flexible - Individual - Successful

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		BASIC 5.000 € p.a.	BUSINESS 15.000 € p.a.	PREMIUM 45.000 € p.a.
Community	**Community Events** ▪ Network Talks ▪ Annual INC Member Meeting ▪ Exploration Day ▪ Innovation Days	✓	✓	✓
Community	**INC Community Portal @ Virtual Campus**	✓	✓	✓
Community	Annual **Technology- and Innovation Conference**	1 free ticket unlimited digital	2 free tickets unlimited digital	3 free tickets unlimited digital
Community	**Recruiting Support** Events and Match Making within RWTH Aachen Community			✓
Community	**INC Steering Committee**			✓
Community	**INCploration:** Exclusive Tech & Innovator Tours	Price: 2.000 € per Person (excl. travel expenses)		
Acceleration – Implementation – Education	Access to **INCworX International** Innovative location for meetings, workshops in Aachen, Munich, Dresden, Istanbul & Hong Kong	- 10 %	- 20 %	- 30 %
Acceleration – Implementation – Education	**Acceleration as a Service** ▪ Company Building ▪ Disruptive Innovation Projects incl. Implementation ▪ Corporate Venturing ▪ Innovation Workshops ▪ Key Account Management	On Demand		
Acceleration – Implementation – Education	**Flexible R&D & Training Budgets** ▪ Bilateral projects (Consulting, Steering, Coaching) ▪ INC Academy Training (Certificate Courses & Seminars) ▪ Consortium projects and Cross-Industry Groups ▪ Innovation workshops ▪ Start-up Identification and cooperation projects…	Individual project budget of 2.500 €	Individual project budget of 12.000 €	Individual project budget of 35.000 €
	General Discount on Bilateral Services	3 %	5 %	10 %

INC Community

Events 2022

INC INVENTION CENTER

Innovation & Demo Day
Digital Operations & Artificial Intelligence
30.03.2022
digital

CTM Alumni
27.04.2022
Dresden

Innovation & Demo Day
Sustainability
31.05.2022
Munich & digital

CXO Meeting
07.07.2022

TIS Technology & Innovation Summit
28.-29.09.2022
Dresden & digital

Innovation & Demo Day
Innovation Excellence
15.11.2022
Aachen & digital

01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12

Network Call 11.02.2022

Network Call 29.04.2022

Network Call 01.07.2022

Network Call 02.09.2022

Network Call 09.12.2022

Meet the INC
12.05.2022
digital

Recruiting Event
Date to be defined

Annual Meeting
14.09.2022
Aachen & digital

Meet the INC
03.11.2022
digital

INC Community Projects 2022

Project Excerpts

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Cross Industry Groups

- start spring 22 — Corporate Venturing & Collaboration
- start spring 22 — Agile Transformation
- start spring 22 — TIMEX
- start spring 22 — Product Development 4.0
- start 03/22 — Intelligent Polymer Industrialization (AI)

Technology Streams

- ongoing — Hydrogen Technologies
- start 07-08//22 — Digital Transformation: Scaling up Industry 4.0 pilots

Consortium Projects

- start 03/22 — Technology driven Sustainability
- start 02/22 — Artificial Intelligence: Understand – Apply – Benefit
- start 03/22 — Achieving Excellence in Edge AI
- start 06/22 — Digital Supply Chains and Integrated Planning
- start 09/22 — Successful Practices in Technology and Innovation Management
- start 03/22 — Scaling-Up the Hydrogen Economy

Academy

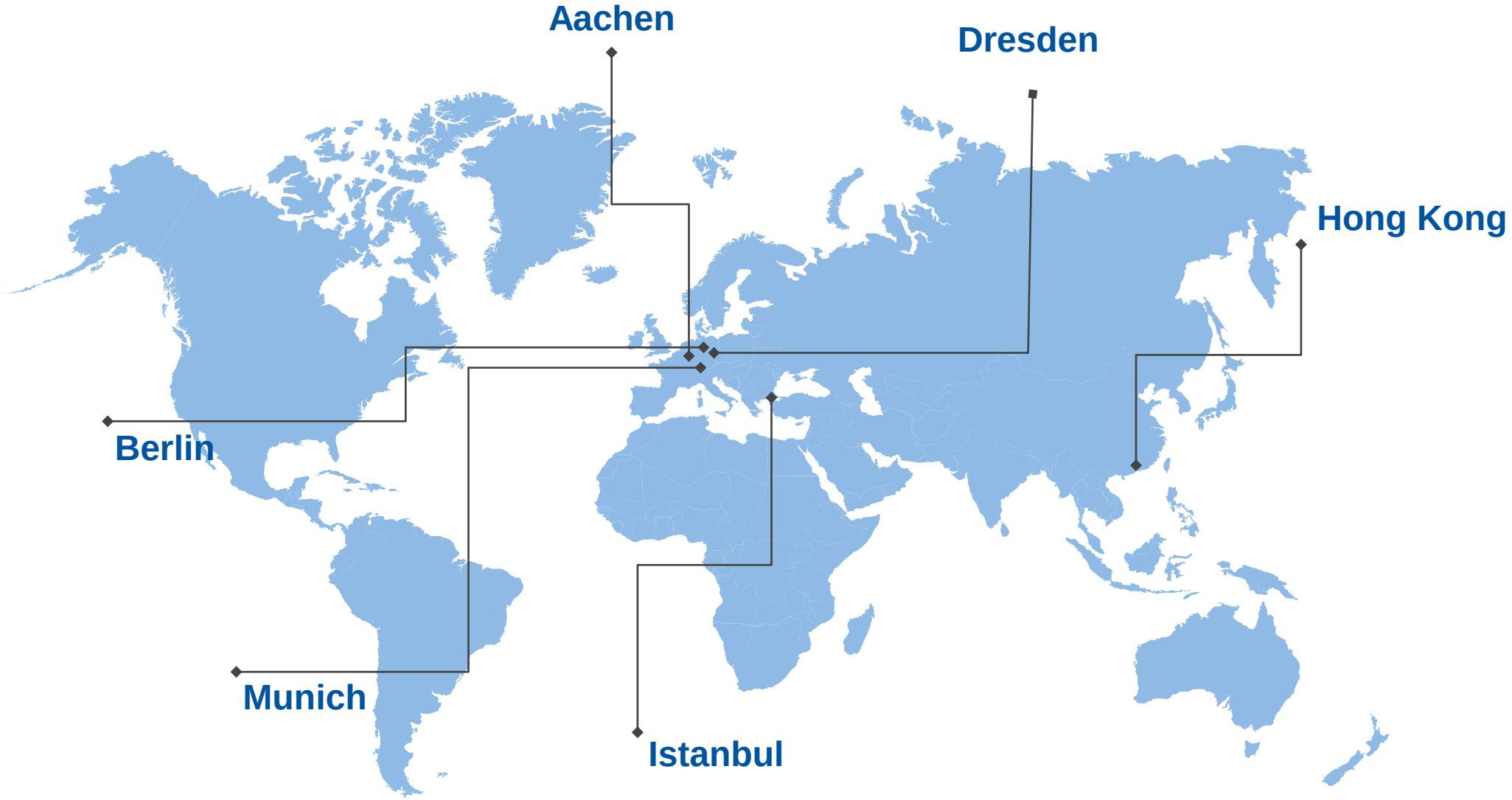
- ongoing — AI ACADEMY
  - AI Newcomer
  - AI Professional
  - AI Trainer
  - AI Insider
- ongoing — I4.0 ACADEMY
  - I4.0 Explorer
  - I4.0 Expert
  - Chief Digital Operations Mngr.
- ongoing — CTM
  - Chief Technology Manager
- ongoing — CSM
  - Chief Sustainability Manager

INCploration

Germany | Istanbul | Hongkong

Access to Global Community

Connection with Established and Globally Operating Network Partners



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Business Unit:

Sustainability

Sustainability is not a choice…

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Sustainability is not a choice…
it is a **necessity for survival!**
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Major Transformation of the European Industry

Are you ready for a Sustainable Future?

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European Climate Law & Green Deal

net zero emission by 2050

Necessary Decarbonization of

- Mobility
- Energy
- Industry
- Materials

Sustainability Through Technology-driven Innovation

We Know the Technological Solutions to Reach Your Sustainability Goals

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Circular Economy

- ✓ Reuse
- ✓ Reduce
- ✓ Recycle

CO2 reduction

Energy

- Gas (e.g. Hydrogen)
- Electricity (e.g. Battery)
- Heat (e.g. CHP)

Integrated Energy Systems

- Sector Coupling
- Smart Grids
- Smart Buildings
- Integrated Microgrids (e.g. industrial parks)

Sustainable Production

- Efficiency through Energy Harvesting
- Flexibility through Digitalization
- Less Waste through Horizontal Integration & Sustainable Logistics
- ….

Material waste reduction

Material

- Sustainable materials
- Intelligent materials
- Functional materials
- …

Addressing Sustainability Challenges Requires Economic Solutions

Systematic Prioritization & Evaluation of Action Fields

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1. Identification Level

Challenge:
Economic opportunity/ risk evaluation & identification of action fields

Solution:
Sustainability Navigator & Assessment

Technology-oriented Action Fields in

Sustainability

- **Energy Systems**
- **Sustainable Materials**
- **Production Processes**
- **Supply Chain**
- **…**

2. Solution Level

Challenge:
Validation of action fields & identification of viable solutions

Solution:
Sustainability Radar & Scouting

- Hydrogen
- Batteries
- Renewables
- Heat Transfer
- …
- Recycling
- Synthetic Materials
- Natural Materials
- Engineered Materials
- …
- Flexible Planning
- Advanced Processes
- Waste Optimization
- Design Optimization
- …
- Horizntal Integration
- Sustainable Logistics
- Circular Economy
- …
- …

3. Implementation Level

Challenge:
Sustainable Transformation

Solution:
Implementation & Strategy Support

Strategic Focus Fields & Capability Building

Complementary INC Expert Network

Potential Innovation Field

Examples

Enabling Technology-driven Sustainability

How to achieve economic balance?

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Sustainability Navigator
Systematic identification of technology-driven sustainability levers & whites spots considering both economical & environmental opportunities and risks

Sustainability Radar & Scouting
Bilateral consulting and specific innovation support; consortial project approach for constant alignment with dynamic technology- and market-related developments

Sustainability Strategy
Value-oriented derivation and prioritization of strategic action fields in sustainability and systematic roadmapping

Implementer Trainings
Target group-specific trainings focused on selected, attractive technology fields such as H_2 & Battery Technologies

Ecosystem Access
Barrier-free access to an innovative ecosystem of technology experts, key players as well as initiators of joint light-house projects

Implementation Support
Technological coaching, expertise and project management in selected core technology fields

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Business Unit:

Digital Operations

Industry 4.0 adds value when introduced end-to-end with a clear focus on strategic goals and KPI rather than (only) local opportunistic optimization.

It needs a stable infrastructure to do so and standardization to keep it manageable.

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Digital Operations offers bespoke **Industry 4.0 transformation services** and steers the full implementation…

…from **pilots** to scalable, **value-driven I4.0 solutions** across the value chain

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From Pilots to Scalable, Value-driven I4.0 Solutions Across the Value Chain

Our Value to You

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Consulting, Coaching & Steering

Bilateral consulting and coaching services from individual factory roadmapping to overall plant network coordination; consortium studies and projects

I4.0 Navigator

Methodical support in project selection, infrastructure definition and organizational setup of the digital transformation

Global Support

Supporting to bring globally needed I4.0 capabilities to your supplier and production network with locally adapted solutions through our international hubs

I4.0 Academy

Tailored training modules for driving the digital transformation to value

Technology guidelines

Optimizing roll-out times and total cost of ownership of your I4.0 applications by standardizing the way they are implemented throughout your company and supply chain

Research & Development

Cutting-edge R&D in promising topics at the intersection of I4.0 and new technologies

We Create Business Impact with Digital Solutions in Three Focus Areas

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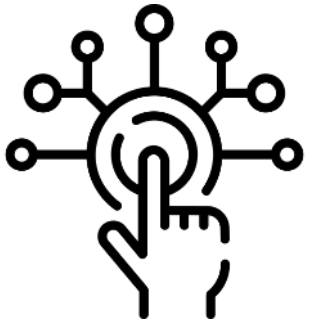
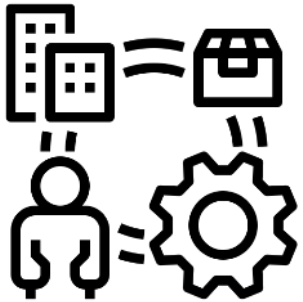


Digital Transformation

Holistic support of the transformation to Industry 4.0

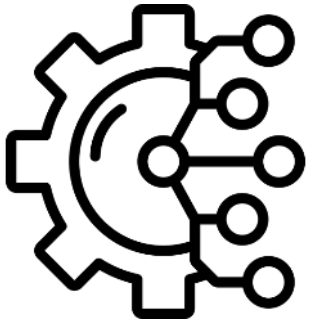
- End-to-end guidance of the transformation process
- Support from the initial idea to implementation in concrete products and services
- Scaling of I4.0 pilots across the production network



Digital Logistics and Planning

Digital solutions for transparency in the supply chain

- Digital solutions to deal with higher variety, shorter delivery times and increased supply chain risks
- Data integration with suppliers and customers and demand forecasting
- R&D support of topics around Gaia-X and horizontal integration to become leading solution integrator



Flexible Digital Production

Digital solutions for a flexible production and cost reduction

- Solutions for shorter delivery times and flexible production concepts
- R&D support of the focus area predictive quality
- Implementation support of AI applications and inspection methods for predictive quality

INC Invention Center Offers Tailored Individual Services

That Complement every Step of the Journey of I4.0 Introduction from Conception to Scaling

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INC SERVICES

IDEA AND STATUS QUO

I4.0 Check-up

What is your readiness for I4.0?

HYPOTHESIS

Workshops and Identification

How to create a single-source of truth IT architecture?

How to improve UI in production?

Technology concepts

Where is potential for automation and robotics?

How strong is our IT/OT architecture?

EXPLORE

Strategy development

What are your priorities for I4.0?

Concept development

Which Middleware, IoT platform or intralogistics system to implement?

Which digital products & services to offer?

PILOT

Coaching

How to deal with sensors, data and network systems?

Prototyping, Engineering and Implementation

Implementation as a service and technology development

Vendor and solution scouting and evaluation

SCALE

Harmonization

Harmonizing island solutions in large companies who have introduced I4.0 based on developed patterns and templates

R&D solutions

Solutions based on emerging technologies to solve current and future challenges in planning and quality

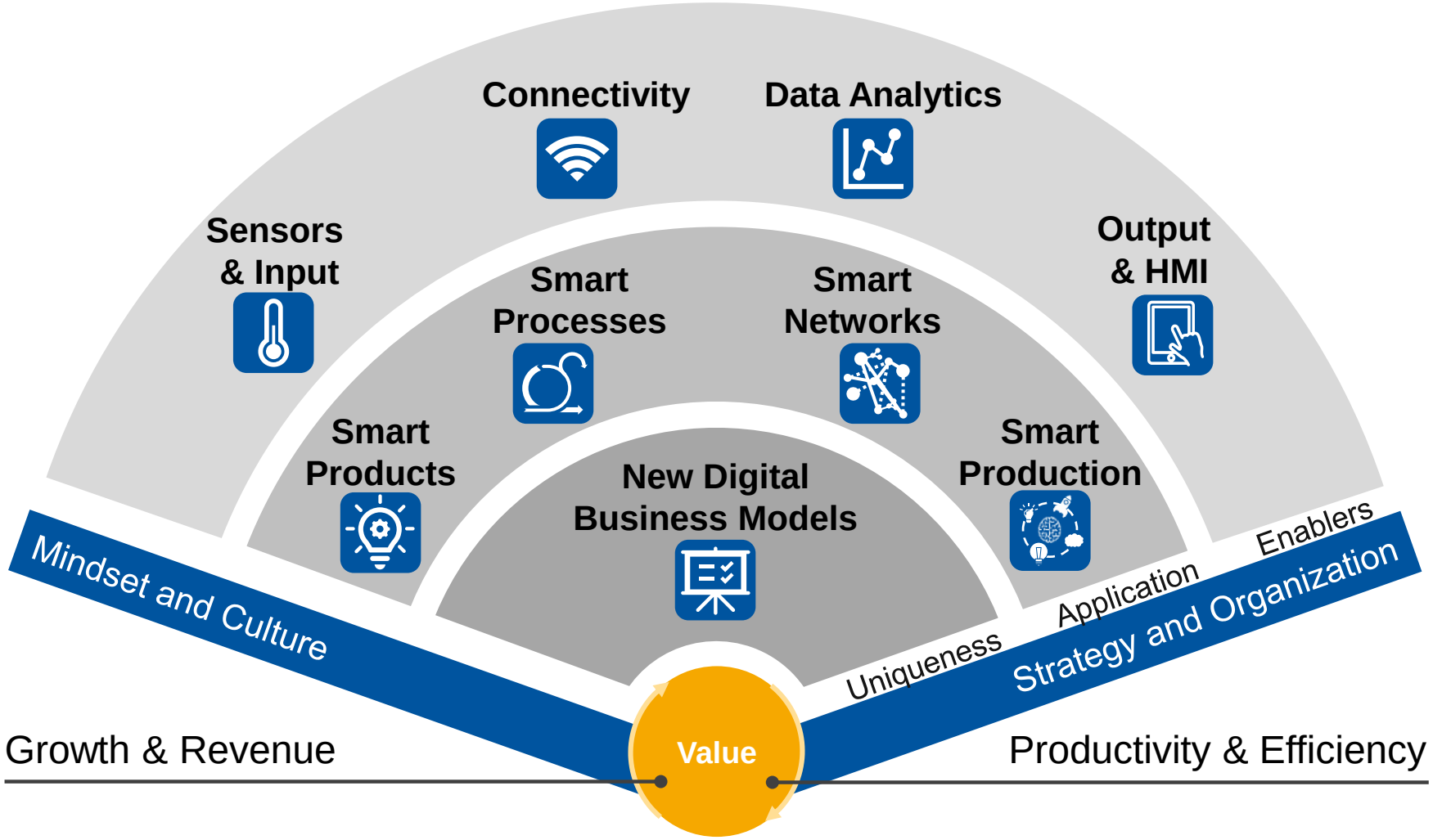
Training – Build capabilities for I4.0

Organizational & Cultural Change – Prepare people and processes for I4.0

Community of practice – Find strong partners to realize use-cases

The Smart I4.0 Navigator

Helps to Focus Projects on Adding Value to the Company as a Whole



We Take an End-to-end View of the Digital Transformation

Support in Building up and Scaling Capabilities Across the Value Chain

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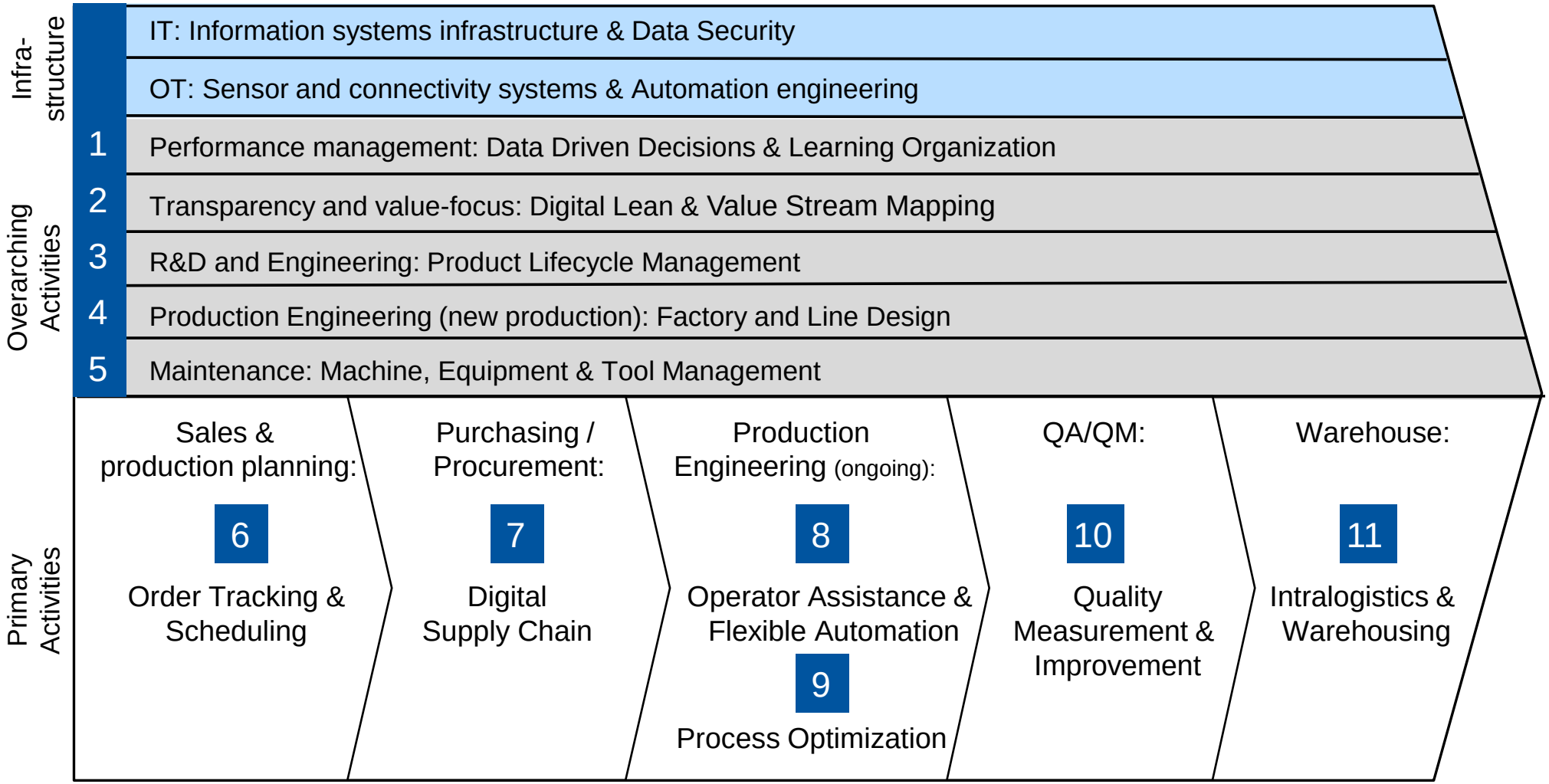
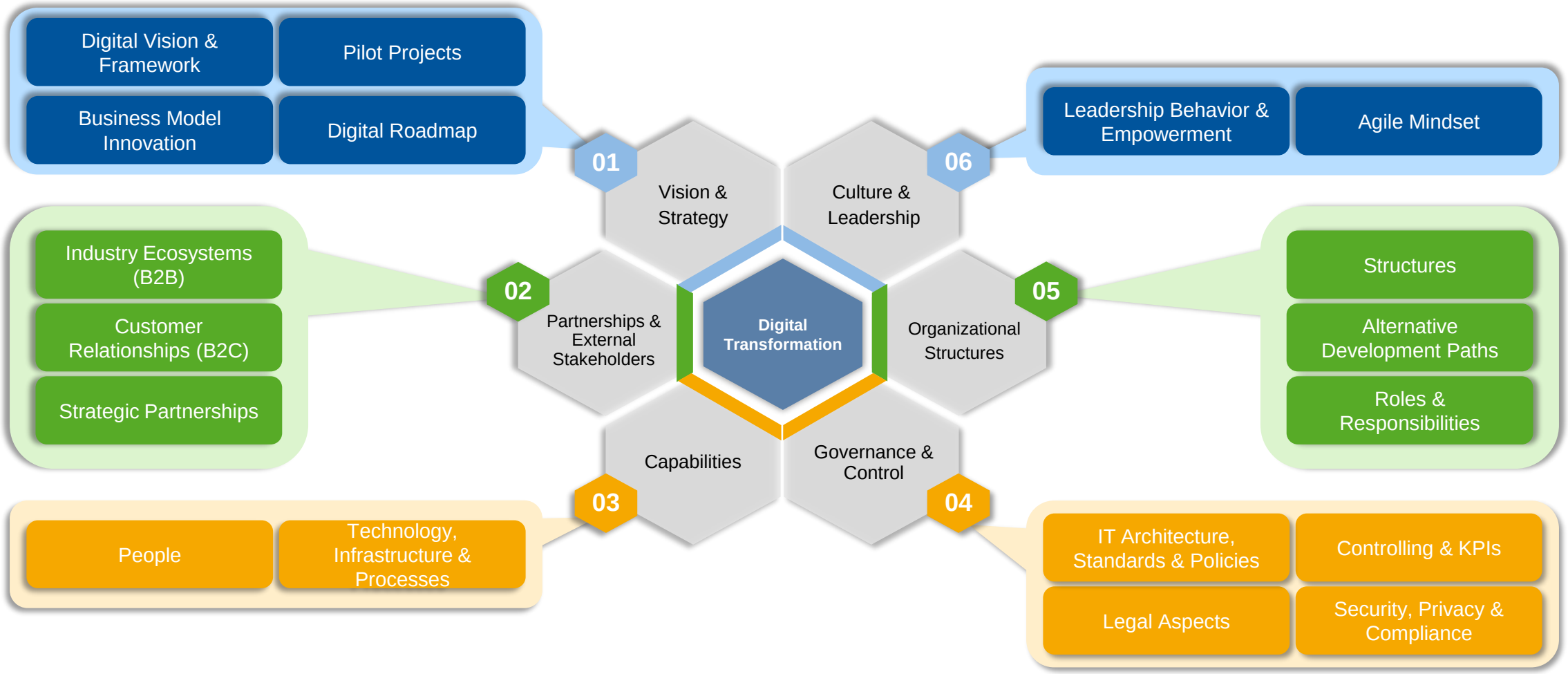


The Digital Transformation Navigator

Designed for a Holistic Transformation Program



*Developed based on consulting and implementation projects, literature analysis, research papers & journals (e.g. Gausemeier et al., Matt; Hess etc.) and various experts.

The Industry 4.0 Technology Stream

Enabling Quick Access to the Support you need when Scaling up Industry 4.0 Use-cases to an Overall Strategy

INC INVENTION CENTER

SPEED

"How to quickly identify and deploy feasible and efficient technical solutions?"

Continuous exchange with INC & partners for quick reactions

EXCELLENCE

"How can we improve operational excellence with Industry 4.0 use-cases?"

Individual coaching and steering sessions

KNOWLEDGE

"Which technologies affect us and how are our competitors positioned?"

Access to international network of experts, research institutes and companies

INFORMATION

"How do we stay up-to-date and quickly respond to volatile markets and new technologies?"

Up-to-date trainings and information provision on current hot topics

NETWORK

"How to bypass pitfalls of competitors and learn from their solution approaches?"

Exchange in industry focus groups accompanied by deep domain experts

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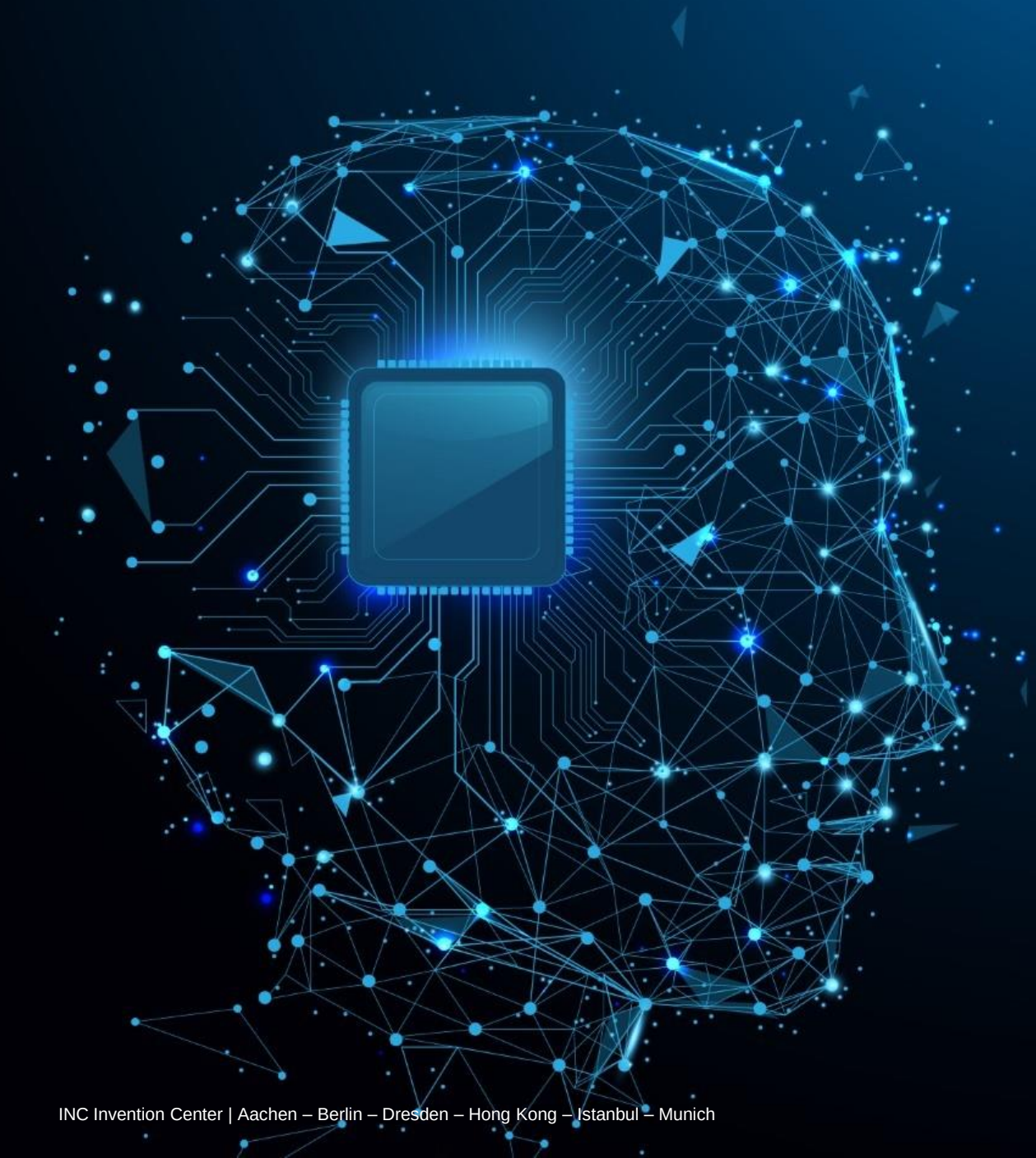
Business Unit:

Artificial Intelligence



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Implementing Artificial Intelligence on a global scale

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Implementing Artificial Intelligence on a Global Scale

How to achieve scalabe AI?

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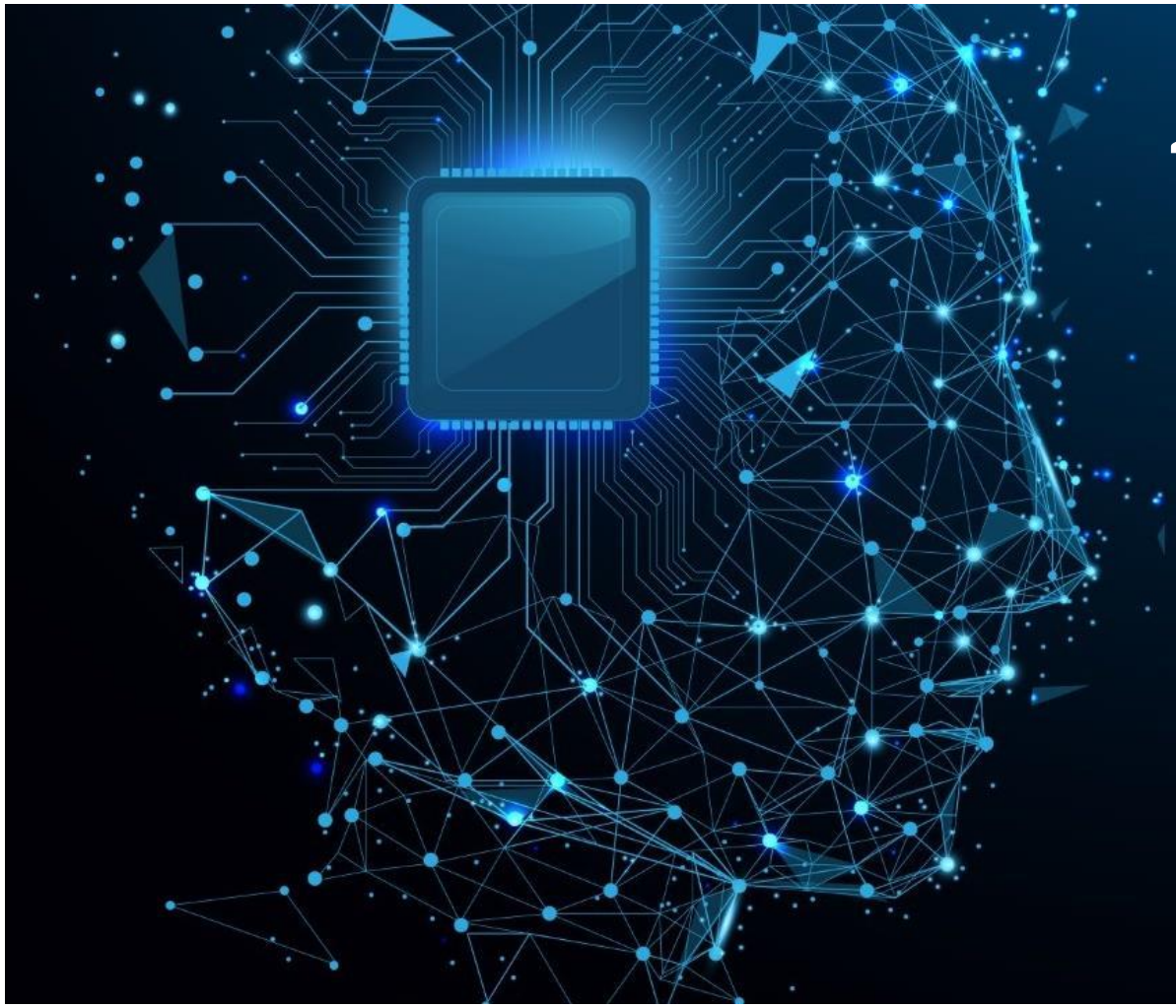

Consulting, Coaching & Steering
Bilateral consulting and coaching services; consortium studies and projects

AI Navigator
Methodical support tools and guidance in the phases of ideation, assessment, technology scouting / data testing and implementation

Lighthouse Projects
Establishing the hybrid flagship InnovAItion Campus through AI lighthouse projects
(AI innovation workshops, validation of project ideas, proof of concept, implementation)

AI Academy
Value driven learning journey through the world of artificial intelligence (INC training courses supplemented by fitting external courses)

Pre-trained AI Models
Cooperative development with industry partners to deal with small data and reduce model training time

Research & Development
Linking cutting-edge research projects with current customer requirements in future oriented research projects

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AI Product & Service Overview

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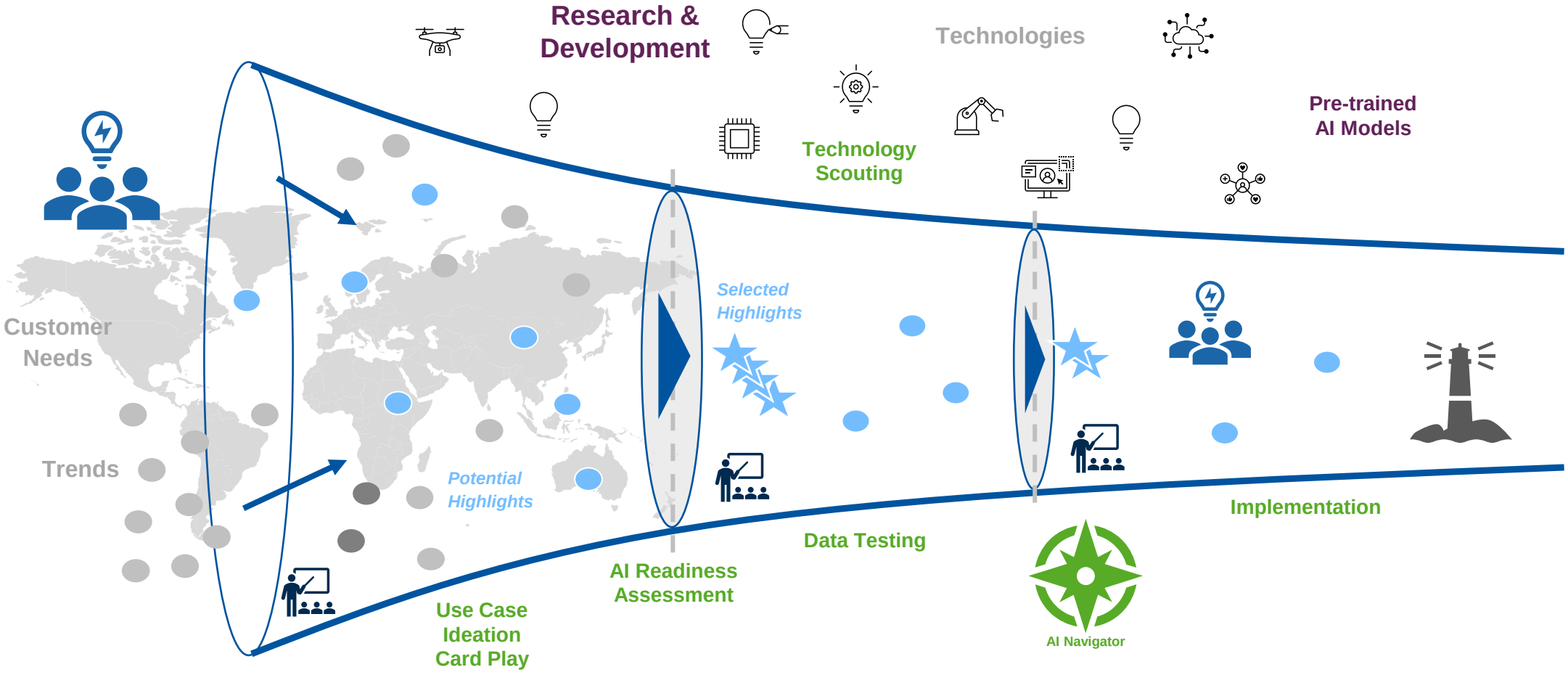

Consulting, Coaching & Steering (e.g. AI Consortium Projects)

AI Academy

AI Navigator

4 Phases to Successful AI Usecase Implementation

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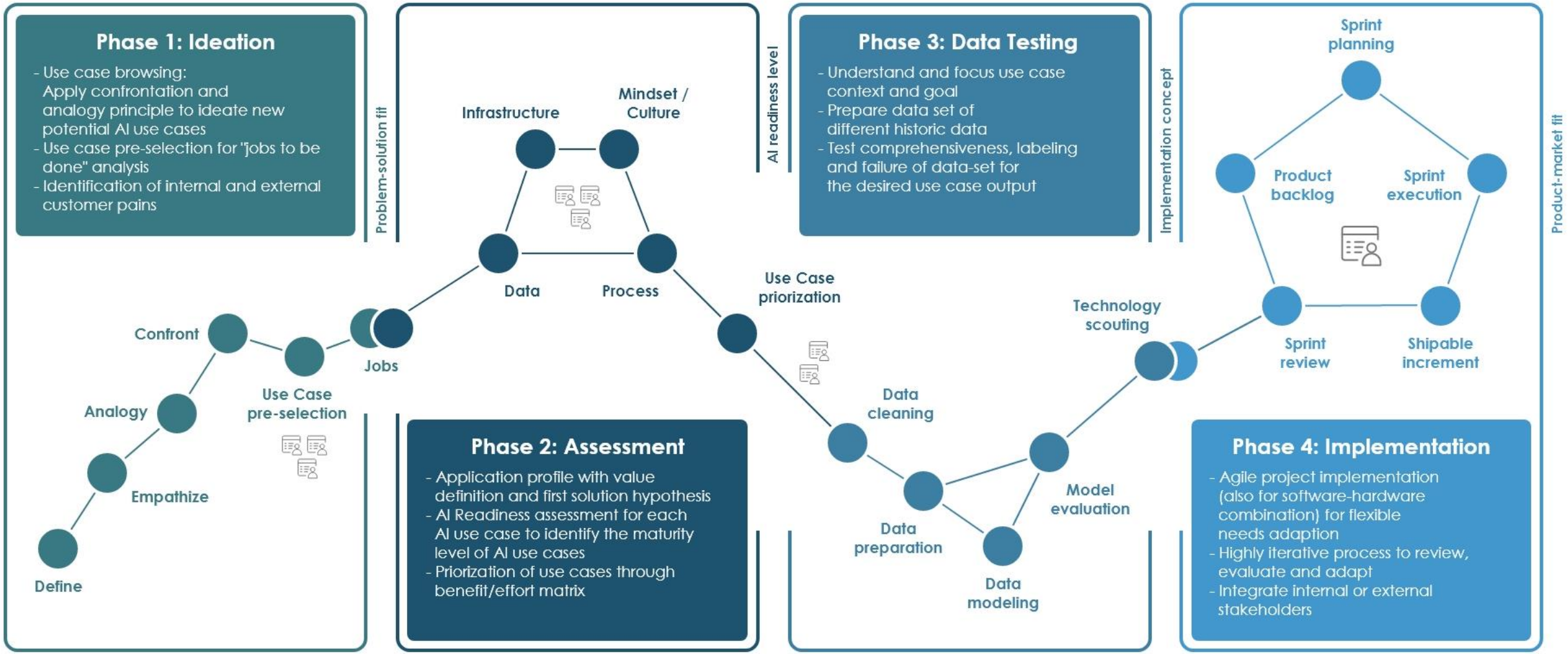

AI ACADEMY TRAININGS

VALUE DRIVEN LEARNING JOURNEY THROUGH THE WORLD OF ARTIFICIAL INTELLIGENCE.

AI ACADEMY

NEWCOMER

AI NEWCOMER BUSINESS & TECH

- AI NEWCOMER BUSINESS
- AI NEWCOMER TECH

PROFESSIONAL

- AI PROFESSIONAL BUSINESS
- AI PROFESSIONAL TECH

TRAINER

AI TRAINER
AI NAVIGATOR

INSIDER

- AI INFRASTRUCTURE
- EXPLAINABLE AI
- RESPONSIBLE AI
- EDGE AI

BUSINESS EXPERT LEVEL

TECHNOLOGY EXPERT LEVEL

2 HOURS | ½ DAY | 1-2 DAY(S) | 5 DAYS

The Future of the Polymer Industry

It‘s all about Sustainability & Artificial Intelligence

Relation between Circular Economy, Polymer Industry & AI

- Promoting sustainability in a circular economy across the industry in an environment characterized by increasing climate change.
- AI Impacts Polymers, and Polymers Impact AI: According to the Tokyo Institute of Technology Research, polymers will be a cornerstone to electronic devices. This will set the stage for smaller, more portable, yet more compute-capable AI devices that also use less energy.
- While polymers will be a big part of shaping the future of AI, edge computing will also play a key role in moving the industry towards circular economy and sustainability.

Pillars for Shaping Future Factories of a Sustainable Polymer Industry

- Collaborative Data Sharing in a secure manner: data needs to be combined across spare-part databases, recycling prices, and the product reuse marketplace
- Resource Sharing: intelligent resource allocation of machines so that each device could collaborate and contribute in provisioning latency-sensitive services, thus being able to respond to personalized, customized, connected, and inexpensive products and experiences by using edge computing and 5G
- Context Awareness: swarms of robots, functioning autonomously, will have the capability to switch power consumption mode, depending on environmental conditions such as ambient temperature

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AI R&D @ Polymer Industry

Development of leading-edge AI Solutions in Injection Molding Applications

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Industry Challenges

- Limited Product Quality due to instability in process, influence of material and environmental factors
- Limited Process Efficiency in High-Mix Low Volume Production

Solution Benefits

- Digital Solution Portfolio for Injection Molding Industry
- Quality/Process Excellence: Reduced rework (loss parts), Increased OEE, Improved product quality

Research Questions

Injection Molding Process

- How can material and environmental factors be measured, modeled and used for predicting product quality and ensuring the process stability?
- How can the ramp-up time be reduced by after product/tool change at injection molding (how to learn from past ramp-up cycles)?

Tool and Die Making (Machining Processes)

- How can real-time sensor systems be integrated into the process and mapped with the process simulation (adaptive process control)?

End-to-end Quality Traceability

- How can product quality be measured and traced per part over multiple process steps (production line, event-based quality)?

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Research Programs @FLAIR Hong Kong

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Digital Shadow

… builds a digital representation of the shopfloor in order to bring transparency and contineous improvement for manufacturing companies

Flexible Production

… supports manufacturing companies in dealing with a product mix of high variance and low volumes in the shop floor

Intelligent Manufacturing

… uses intelligent methods from AI and robotics in order to automate and improve quality inspection and handling processes

INC INVENTION CENTER

Business Unit:

Innovation Excellence

Challenges

Facing uncertainty and dynamic evolution by implementing modern innovation systems

» Effective and efficient processes, methods and structures are important – the culture of innovation makes all the difference.«

Innovation is a key factor in ensuring growth and competitiveness.
The challenge is to identify priority opportunities and risks in the market environment at an early stage and finding answers to the following questions:

- What innovations and technologies should be implemented to meet present and future market demands?
- What are required skills, resources and competencies our company needs in order to produce successful innovations?
- How can we distinguish ourselves from current and new competitors?
- How must innovation processes, methods, roles and structures be systematized, to evolve from creative ideas to a valid concept to market?
- What is the best way to foster a culture of innovation that facilitates creative ideas as well as focused innovations?

Objectives

Implementing innovations - from ideation to successful market launch

INC INVENTION CENTER

Our business unit Innovation Excellence supports your specialists and executives in planning and conducting technology and innovation management in order to implement product, technology, service or business model innovations in your organization successfully by:

developing and embed the appropriate processes, methods, tools, roles and structures tailored to the company in collaboration with our clients

focused training and qualification programs:
We enable your company to build and improve the capabilities and competencies essentially required for the implementation of innovations.

providing specialized resources as necessary to take on various roles in technology and innovation management (product owner, innovation manager, etc.)

delivering digital tools in technology and innovation management to ensure efficient and standardized collaboration

Innovation Excellence

Enabling Companies to Innovate

INC INVENTION CENTER

1. Deliver Efficient Innovation and Technology Management

- Technology and Innovation Strategy
- Efficient Processes and Organization in Technology and Innovation Management
- Benchmarking of Successful Practices in Technology and Innovation Management
- KPI based optimization of technology and innovation management
- Methods for technology and innovation management (ideation, intelligence, planning, exploitation, assessment)

2. Enable and Manage Disruptive Innovations

- Domain specific innovation workshops to identify disruptive innovations of the future
- Stress test for the innovation pipeline and innovation strategy
- Setup and operation of incubators, innovation labs or venture programs
- Educated and professional trained implementation resources for disruptive innovation ventures

3. Digitalization and Knowledge Automation

- Development of tool landscapes for technology and innovation management (company specific configuration of processes and tools)
- Integration of knowledge automation for relevant fields of interest to improve intelligence and assessment processes (technology radar, roadmapping, market priorities, assessment matrix etc.)

4. Innovation Brain Academy: Innovation Capability Building Program

1. Deliver Efficient Innovation and Technology Management

Integrated perspective to drive idea to market implementation

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Market and technology trends

Intelligence

What is our vision, mission and goal to focus our innovation program?

What are weak signals?

Planning

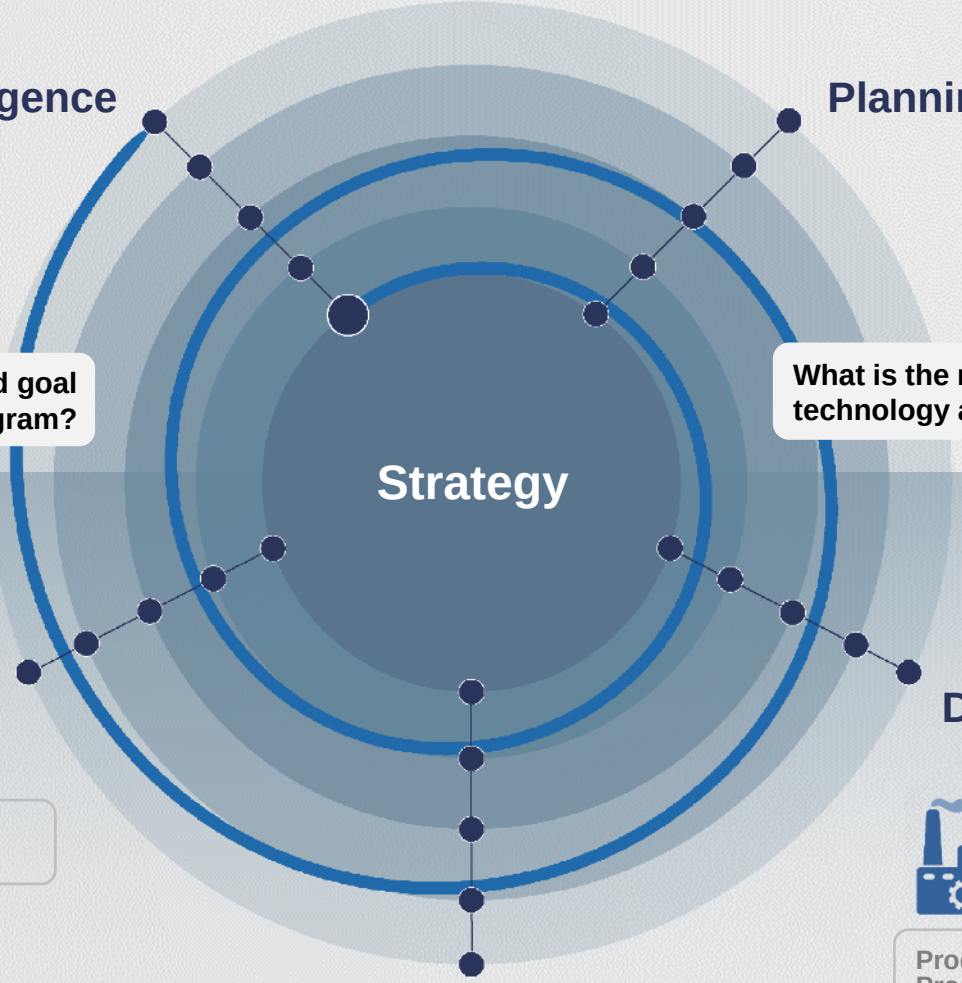
Agile methodology

Competitors

What is the market and technology attractiveness?

Customer requirements

What projects are needed?



Exploitation

Process development

Knowledge sources

How can innovations be commercialized and scaled successfully

Development

Quality gates

Products & Production

How to drive development projects successfully?

Protection

Network partner

How know-how drain can be prevented?

2. Enable and Manage Disruptive Innovations

Alternative innovation paths outside the core business

SET-UP

PROJECT LEAD

RECRUITING

SCALING

UNLIMITED X

Rank 4 of 100 Innovation Labs in Category „Industry“

Accelerator set-up & operation

Technology-Hub set-up

Tech-Campus

- ~ 40 FTE‘s
- ~ €40 Mil. Invest
- Fast-moving consumer goods

Planned Infrastructure

Production Facilities

Ideation Space

1

2

3

4

FOUNDAMENTAL by HEIDELBERGCEMENT

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Corporate Venture Unit

Development & Implementation of a start-up scouting and evaluation concept for strategic investments

REHAU SMART GUARD

- Smart Guard – Burglar protection
- Agile Development project - Kickoff 2017
- Transfer to division for acceleration & growth
- Market Entry - March 2018

Agile hardware development

3. Digitalization and Knowledge Automation

Digitalization of technology and innovation management

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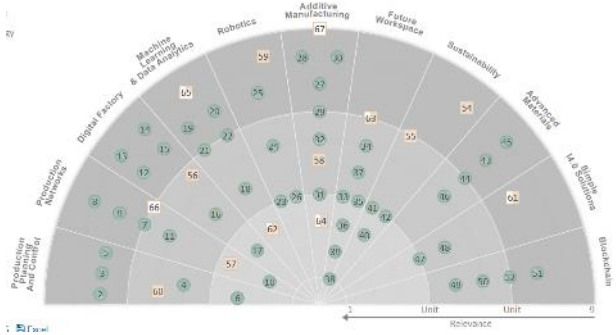
Process building kit

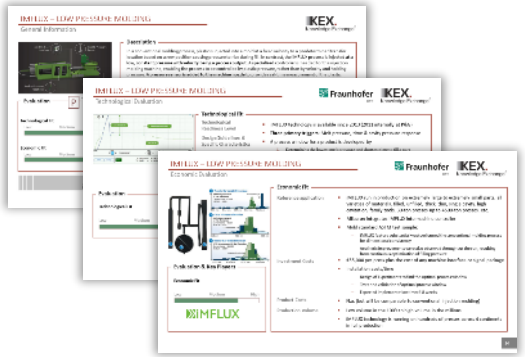
Simple to use software to design processes and workflows

Standard methods



Standard support tools along the whole go to market process

Knowledge access



Quick access to expert and technology knowledge

4. Innovation Brain Academy

Innovation Capability Building Program with the Chief Technology Manager

Project Approach

Successful implementation of strategic technology and innovation management. Theory and practice of modern elements for the implementation of new technologies, products, services and business models. Understand successful approaches in technology and innovation management for the effective identification, evaluation and development of innovations. On this basis, design a consistent strategy and derive your future fields of action. Test the knowledge gained in practical exercises to develop innovative business models for your individual market success on this basis.

Your value

- Field-tested methods for the systematic design of a strategic technology and innovation management
- Why systematic technology and innovation management is needed and how do we link our innovations to the business model of our company?
- How do we innovate and efficiently implement innovations?
- How do we define an innovation and technology strategy to steer our company in the future?
- How modern process and organization elements can set a viable fundament to innovate?
- How future market and technology opportunities can be utilized for the company?

Day 1

Understand technology and innovation management and how it is linked to the company's business model

Day 2

Customer analysis, trend analysis, competitor analysis, supplier analysis, competence analysis

Day 3

Strategy formulation, roadmapping and intelligence (scouting and monitoring)

Day 4

Diversification, new business development, business model innovation and separate innovation labs/ incubators

Day 5

Benchmark and successful practices in technology and innovation management, discussion round, final exam

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Conditions

5 days compact course 2022:

Aachen Feb 14 – Feb 18

Berlin Jun 20 – Jun 24

Dresden Sep 19 – Sep 23

Munich Nov 21 – Nov 25

Pricing: 4,200 €

Partner

Fraunhofer IPT

INTERNATIONAL ACADEMY | RWTH AACHEN UNIVERSITY

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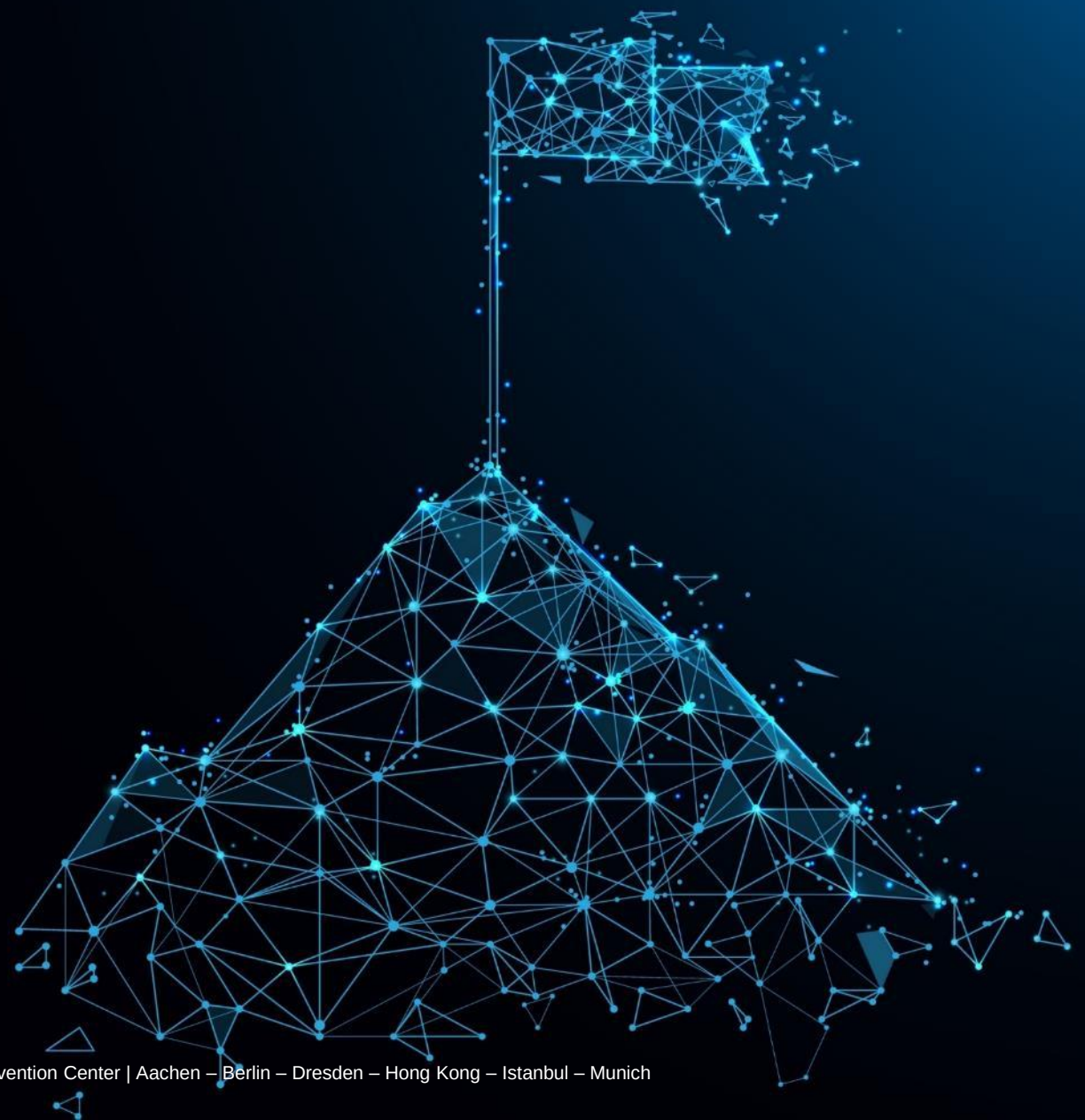
Business Unit:

New Products & Ventures



INC INVENTION CENTER

Building solutions for the challenges of tomorrow by creating innovative products and ventures to future proof companies.

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Future Proofing Companies with new Products and Ventures

As your partner along the whole innovation process, we take a hands-on-approach to take you from ideas to new business.

INC INVENTION CENTER

Co-Creation

INC and INC Members combine expertise and know-how to build successful products and ventures together

Individual Product Solutions

with INC providing all services from strategy to product development and operation of company specifc solutions

Turn-Key Venture Building

with INC as joint venture partner providing a business and product development team and sharing risk to build future business

Phase 1: Together we identify and challenge promising product and service concepts.

Phase 2: We provide teams of venture, product and software experts to validate concepts, kickstart the product development and build the business to achieve a sustainable market position.

Phase 3: Finally, we enable you to take over the successful products and ventures.

CASE STUDY: Digital Solutions for MERAXIS

INC as partner of the Meraxis innovation ecosystem is driving the digital transformation of a TOP10 polymer distributor

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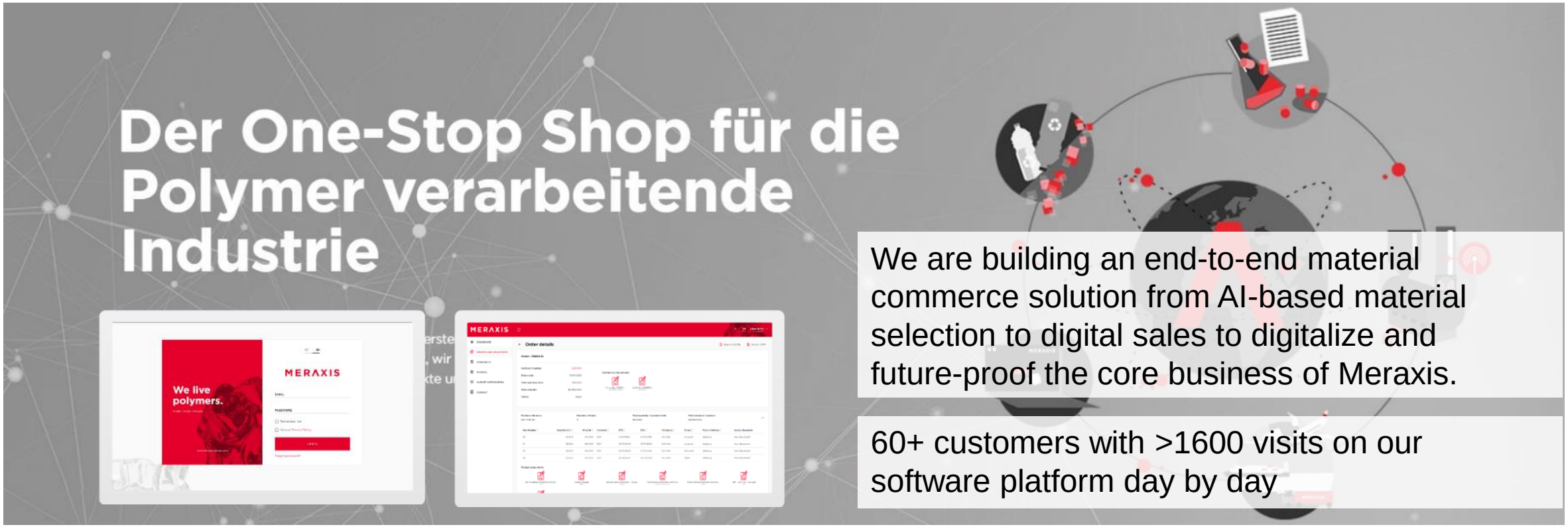
MERAXIS



We are building an end-to-end material commerce solution from AI-based material selection to digital sales to digitalize and future-proof the core business of Meraxis.

60+ customers with >1600 visits on our software platform day by day

Individual Product Solutions: INC is a partner along the whole journey from defining the digital strategy to successful implementation of software solutions that drive future business for Meraxis.

CASE STUDY: Joint Venture LabV Intelligent Solutions

NETZSCH and INC are building a joint venture to digitalize the laboratory market, one of NETZSCH's core markets

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NETZSCH

Laboratories lack digital solutions, e.g. 72% of laboratory devices are not connected. LabV as the central data hub for laboratories connects devices and manages data.

In a co-creation approach we combine the expertise of INC in building digital business and solutions with the industry know-how of NETZSCH.

Turn-Key Venture Building: INC takes a hands-on approach by providing a business and product development team and sharing risk to build future business for NETZSCH.

Products and Ventures in Figures

Your partner for successful implementation of innovations

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>10

Digital Products live and in use by multiple customers day by day

6

Ventures and Joint Ventures

>30

Venture and Software Developers