

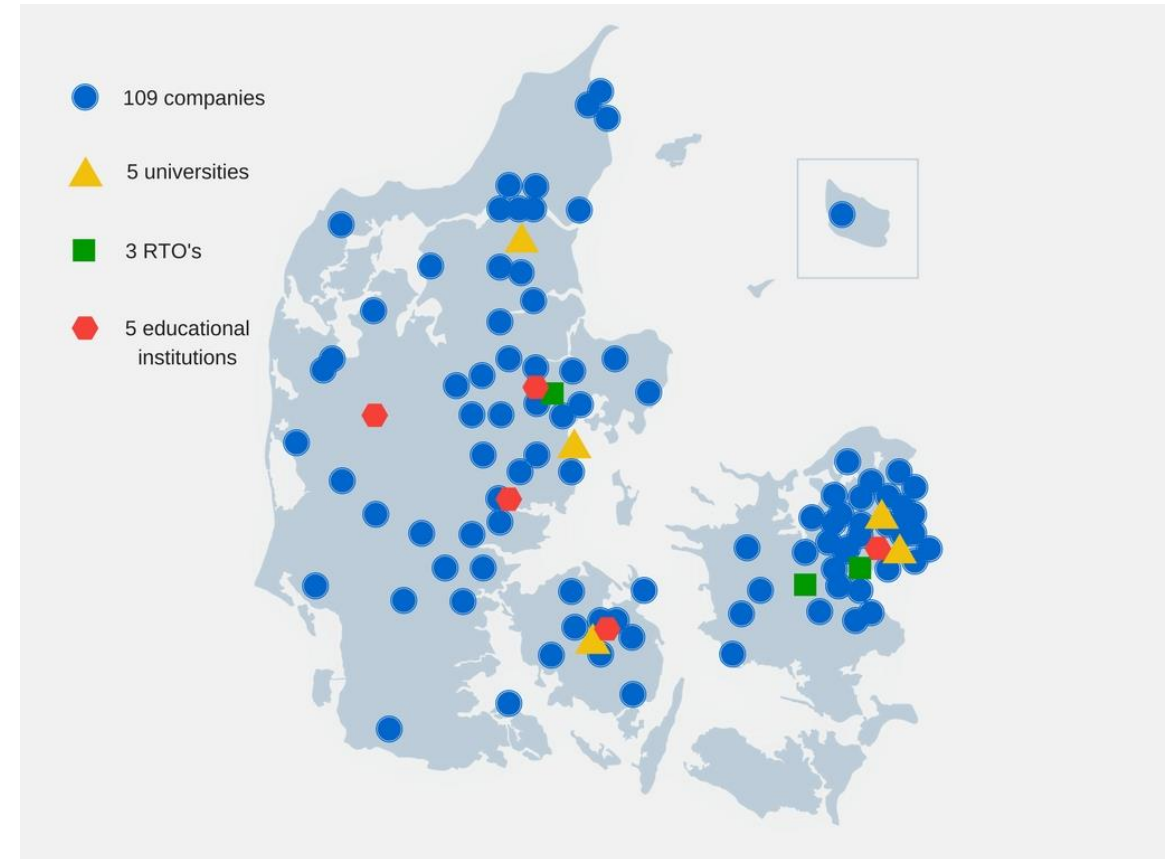


MADE

Manufacturing Academy of Denmark

The MADE Manufacturing Ecosystem










- Increased competitiveness through industrial based research in manufacturing
 - Strengthening the Danish technical research community
- A network focusing on research innovation and knowledge sharing
- Optimization of education to support manufacturing



Existing project platforms

MADE SPIR (Strategic Platform for Innovation and Research)

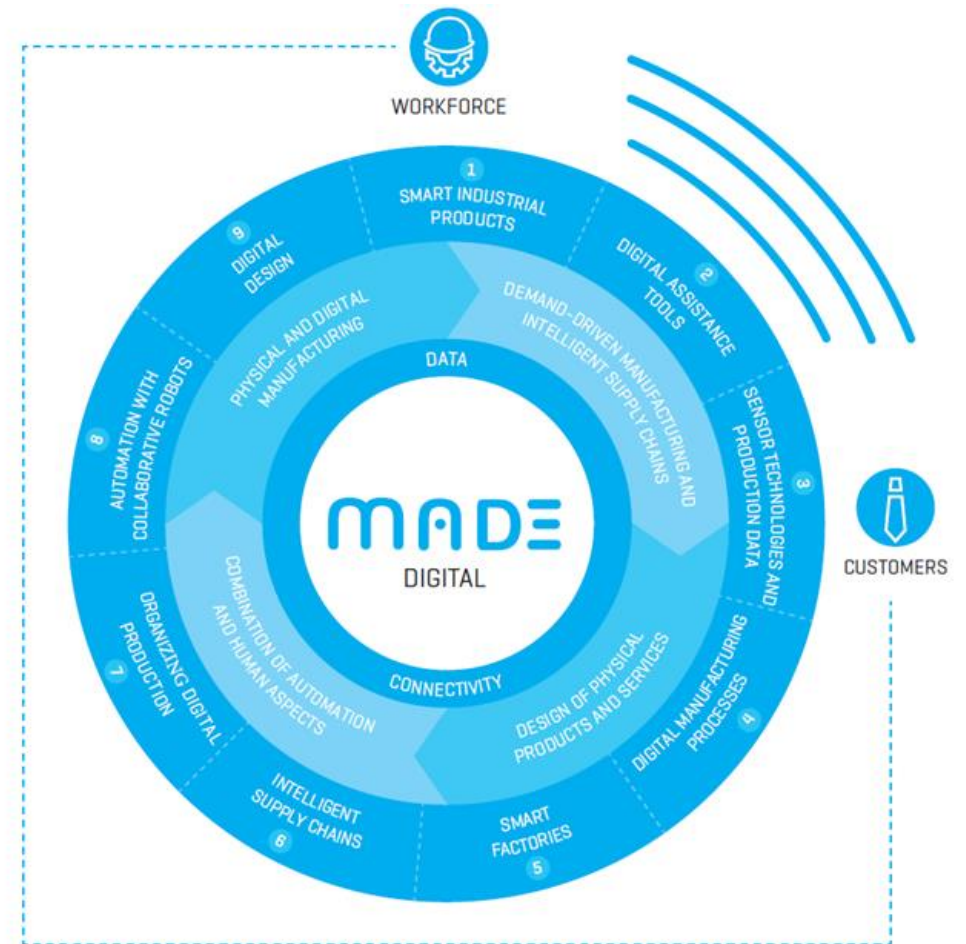
- Focus: Strengthen advanced manufacturing ecosystem
- Partners: 26 industrial partners
5 universities
2 RTO's
- Industrial projects: 26 (increased to 44)
- Duration: 2014-2018
- Budget: 24,2 M EUR
- Financing: Industry, Universities, RTO's, Public and Private Funds and Foundations

FOCUS LEVEL	RAPID PRODUCT & PRODUCTION DEVELOPMENT	MODEL BASED PRODUCTION	COMPLEXITY MANAGEMENT
VALUE CHAIN & BUSINESS SYSTEMS	 <p>HIGH SPEED PRODUCT DEVELOPMENT</p>	 <p>MODEL BASED SUPPLY CHAIN DEVELOPMENT</p>	 <p>THE "NEW" MANUFACTURING PARADIGM</p>
INTEGRATED PRODUCTION SYSTEMS	 <p>MODULAR PRODUCTION PLATFORMS FOR HIGH SPEED RAMP-UP</p>	 <p>DIGITALIZATION OF SUPPLY CHAINS</p>	 <p>HYPER FLEXIBLE AUTOMATION</p>
ENABLING TECHNOLOGIES	 <p>3D PRINT AND NEW PRODUCTION PROCESSES</p>	 <p>LIFELONG PRODUCT CUSTOMIZATION</p>	 <p>SENSORS AND QUALITY CONTROL</p>

Existing project platforms

MADE Digital

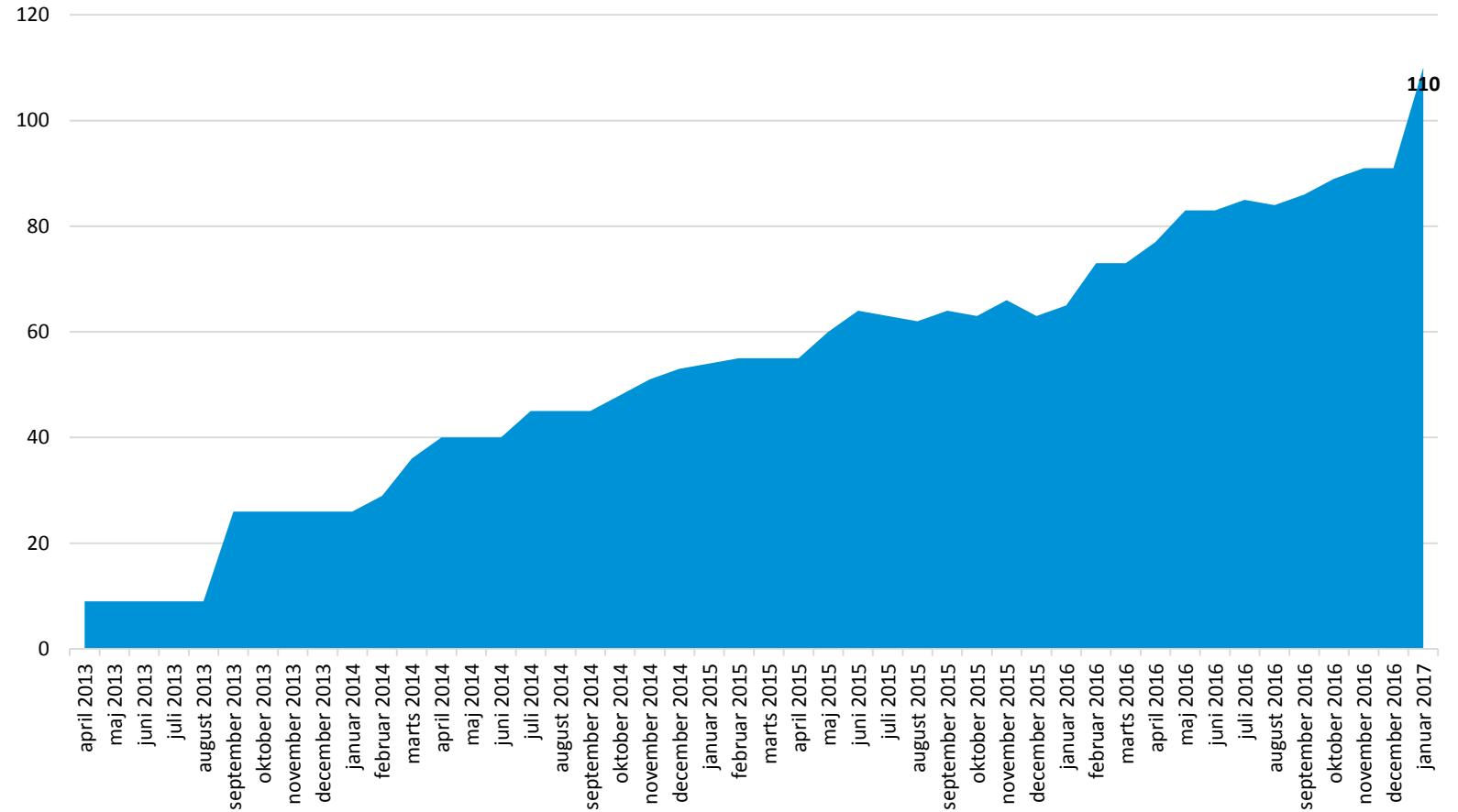
- Focus: Danish Industry 4.0 solutions (Large SME focus)
- Partners: 48 industrial partners
5 universities
3 RTO's
- Industrial projects: 30
- Duration: 2017-2019
- Budget: 25,8 M EUR
- Financing: Industry, Universities, RTO's, Public and Private Funds and Foundations



Results

- Number of industrial partners increased 400 pct. in 3 years
- Continued investment from industry and academia
 - 20 to 70 Industrial research projects
- New products, optimized processes and management solutions
- Knowledge sharing and networking across the Danish Manufacturing Ecosystem

Development in the number of industrial MADE members



Focus of MADE's international collaboration

1. Represent Danish partners in large EU manufacturing platform projects
 - KIC, Eureka projects
2. Sharing knowledge and expertise across EU regions
3. Sharing the costs of developing advanced manufacturing technology
4. Developing international business relationships
 - Automation valley (IHK, VDI, VDE, IPEC)





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