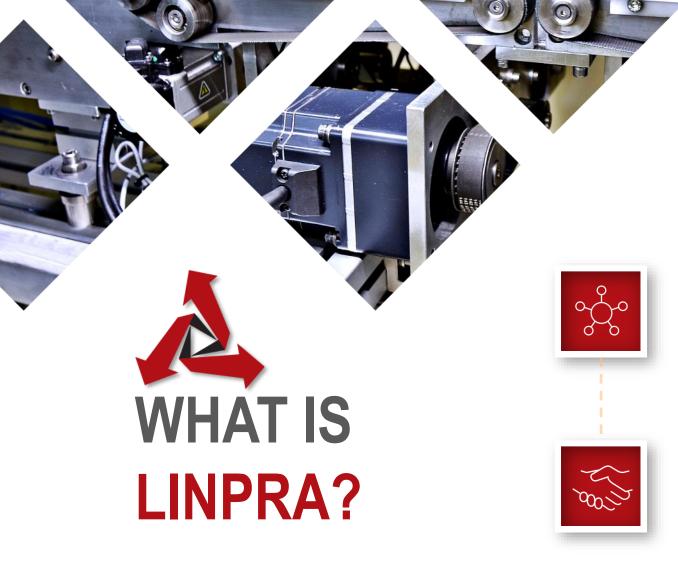


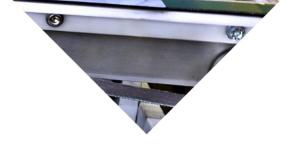


THE DIGITALISATION CHALLENGES IN LITHUANIAN ENGINEERING INDUSTRY

Darius Lasionis

LINPRA Director November 30, 2018 Latvia





THE ENGINEERING INDUSTRIES ASSOCIATION OF LITHUANIA (LINPRA)

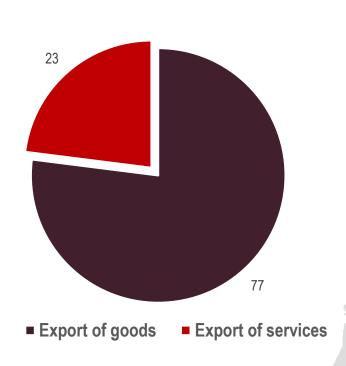
is an independent self-regulatory organization.

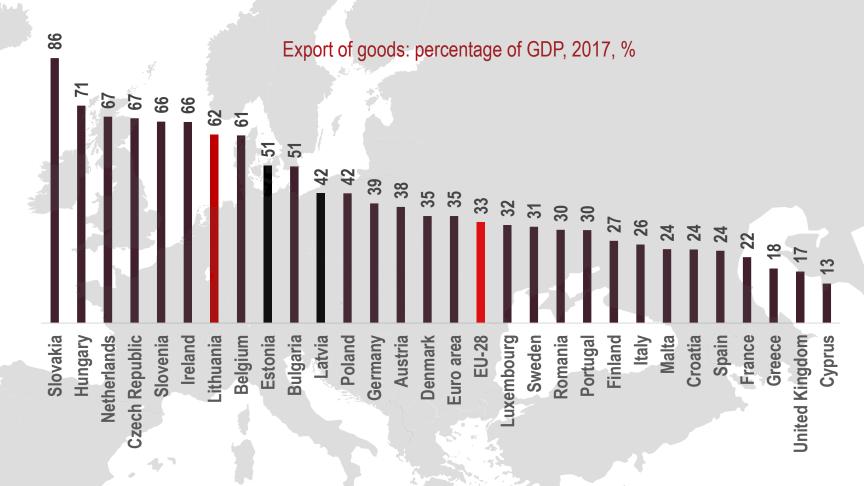
LINPRA REPRESENTS THE INTERESTS OF LITHUANIAN ENGINEERING INDUSTRIES ON NATIONAL AND INTERNATIONAL LEVELS

It aims to increase Lithuania's international competitiveness and step up economic and social development.

LITHUANIAN EXPORT IS DOMINATED BY MANUFACTURING SECTOR

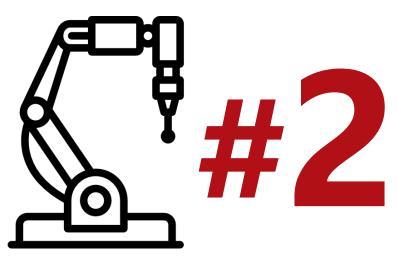






Source: Eurostat

LITHUANIAN BUSINESS ENVIRONMENT



world's most attractive destination for manufacturers in

	2012	2018
Doing		
Business	26	
Ranking	14	
Global		
Competitivene	45	
SS	41	
Report	••	
Economic		
Freedom	21	
Index	16	

LITHUANIAN ENGINEERING SECTOR

3,8 bln. €*



+18 % vs 2016

> 46 000**





ENGINEERING INDUSTRY IN NUMBERS

> 1 500**



> 75 % / 2,9 mlrd. €*

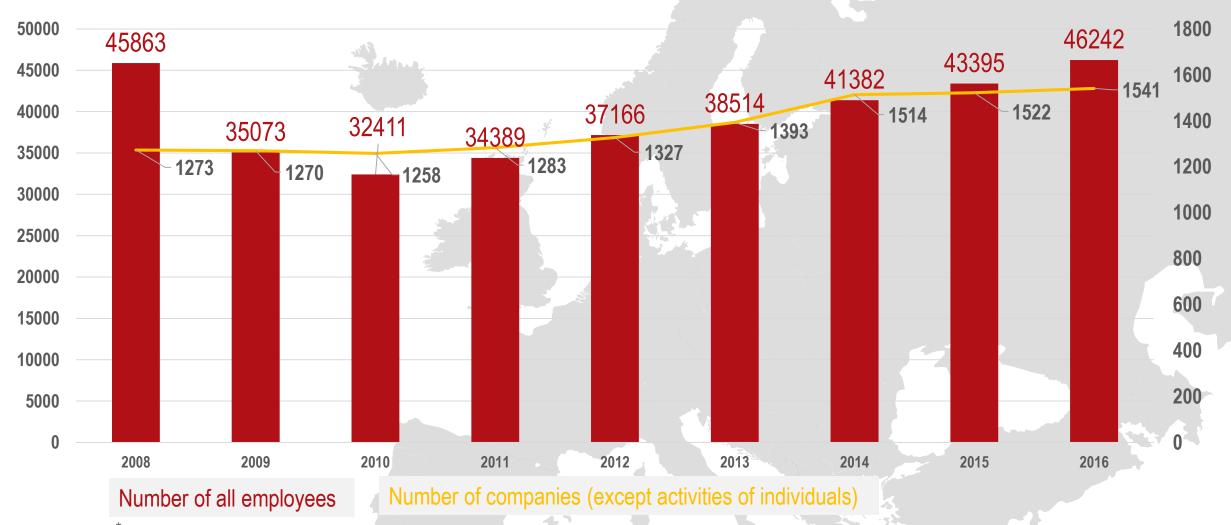


+24 % vs 2016

Source: *Statistics department, 2017 **Statistics department, 2016



LITHUANIAN ENGINEERING INDUSTRY – PRODUCE 43% MORE PRODUCTS THAN BEFORE ECONOMIC CRISIS WITH ALMOST THE SAME AMOUNT OF EMPLOYEES



^{*} Average number of employees in a company

CHALLANGES IN EUROPE

Adapt fast to the changes or risks losing its competitiveness in the global market

• European Commission report show that only around 6% of companies in basic metals & fabricated metal products excluding machines & equipment are highly digitised.

Only 16% of SMEs in EU are highly digitized

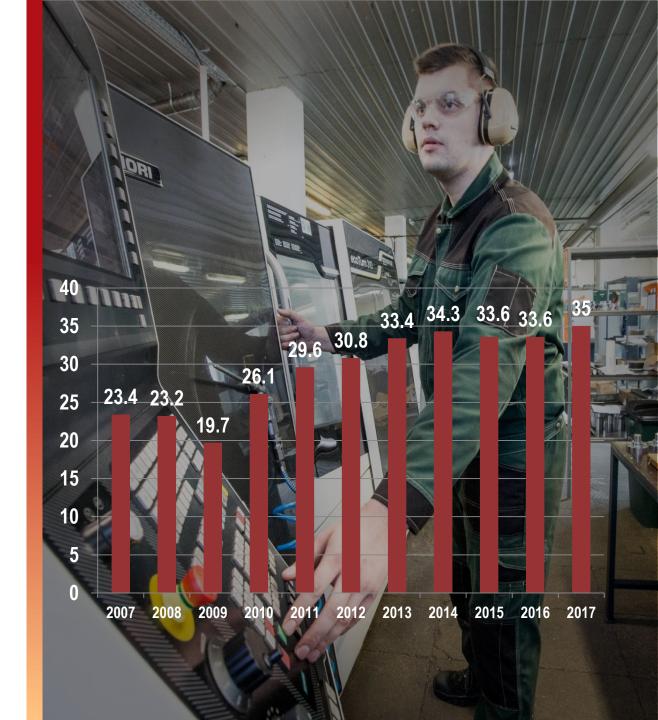
 Lack of highly qualified engineers, technicians and machine operators, who are most demanded by industry





AVERAGE LABOR PRODUCTIVITY IN LITHUANIA – ENGINEERING INDUSTRY

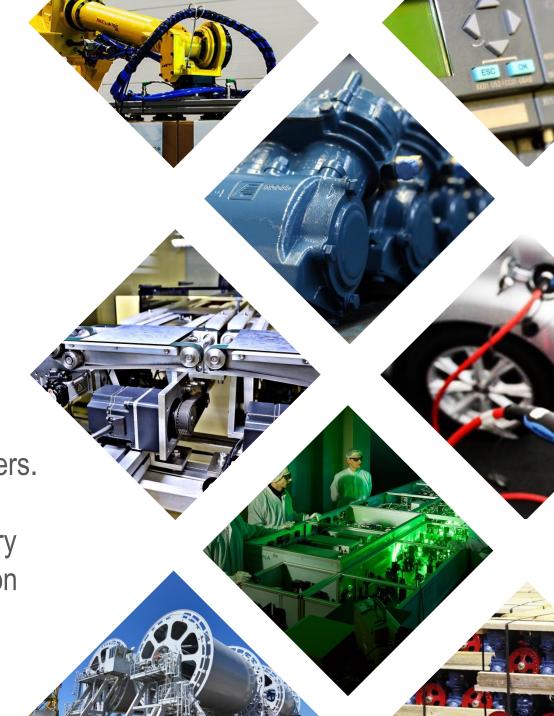
~35 000 EUR / FOR EACH WORKER



CHALLENGES IN LITHUANIA

Major challenge for Lithuania is to lower dependence on contract manufacturing of low value-added products

- Turning current and future public R&D investments into applied research and to start create and develop more new end used products.
- Local industry is dominated by SMEs with low-level technology readiness.
- Small number of high value added end product producers.
- Lack of highly qualified engineers, technicians and machine operators, who are most demanded by industry
- Insufficiently balanced labour markets: current education does not meet industry needs.

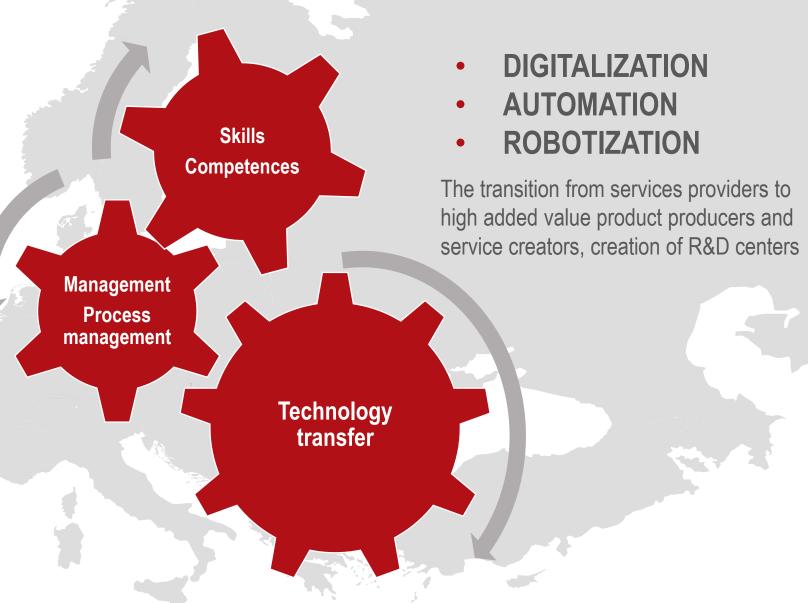


HOW TO INCREASE PRODUCTIVITY / EFFICIENCY?

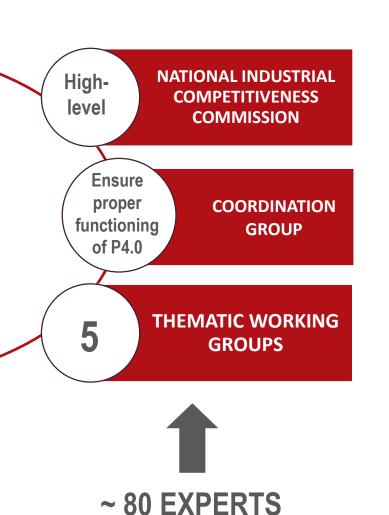
Produce more products in a time unit

Provide more complex decisions

Innovate and produce highvalue added products



INDUSTRY 4.0: NATIONAL INDUSTRY DIGITISATION PLATFORM 'PRAMONĖ 4.0'





National Platform 'Pramonė 4.0' is based on bottom-up approach

Lithuania DIH INICIATYVA PASI AUGOS 3 Industry 4.0 Digital Innovation Hub | Lithuana

INITIATIVES OF DIGITAL INNOVATION HUBS IN LITHUANIA AND EUROPE

ADVANCED MANUFACTURING DIGITAL INNOVATION HUB

Coordinated by LINPRA established competence centre "Intechcentras"

- The activities of the hub are well aligned with the Lithuanian national initiative for digitising industry, Pramonė 4.0.
- This HUB is a participant in the international project Smart Factories in the New EU Member States, and also a member of the Lithuanian Industry 4.0 National Platform (http://www.industrie40.lt/platform/).
- We are also partners in several EU fund applications together with such partners as Fraunhofer institute and Civitta.



incubators governments organisations start-ups other organisations SMEs other industry associations Training providers

ADVANCED MANUFACTURING DIGITAL INNOVATION HUB

The one-stop-shop center provides business enterprises with up-to-date information, expert assistance and access to technology for testing digital innovations. It also helps to carry out and conduct experiments with products, processes or business models.

The Hub seeks significant changes in the field of digitizing industry in Lithuanian companies, thus increasing their competitiveness and added value.

MISSION: By integration of Lithuanian ecosystem participants, in usage of digital technologies, to increase the competitiveness of Lithuanian enterprises.



SERVICES:

- Access to the centers of competences
- The heart of the innovation ecosystem
- Mediation services
- Aid for funding
- Education, training and consulting services
- Audits and assesment of digitalization level





Unique Operations

Innovation, Efficiency & Alignment

Complex Operations

Transformation, Workflow, Effectivenes & Alignment

Strategic Operations
Innovation

Simple Operations

Automation & Optimization

Low

Automation, Digitalisation

High













Making Industry 4.0 real



The 4th international Industry 4.0 conference Kaunas, LITHUANIA | 20th March 2019



THANK YOU!



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