



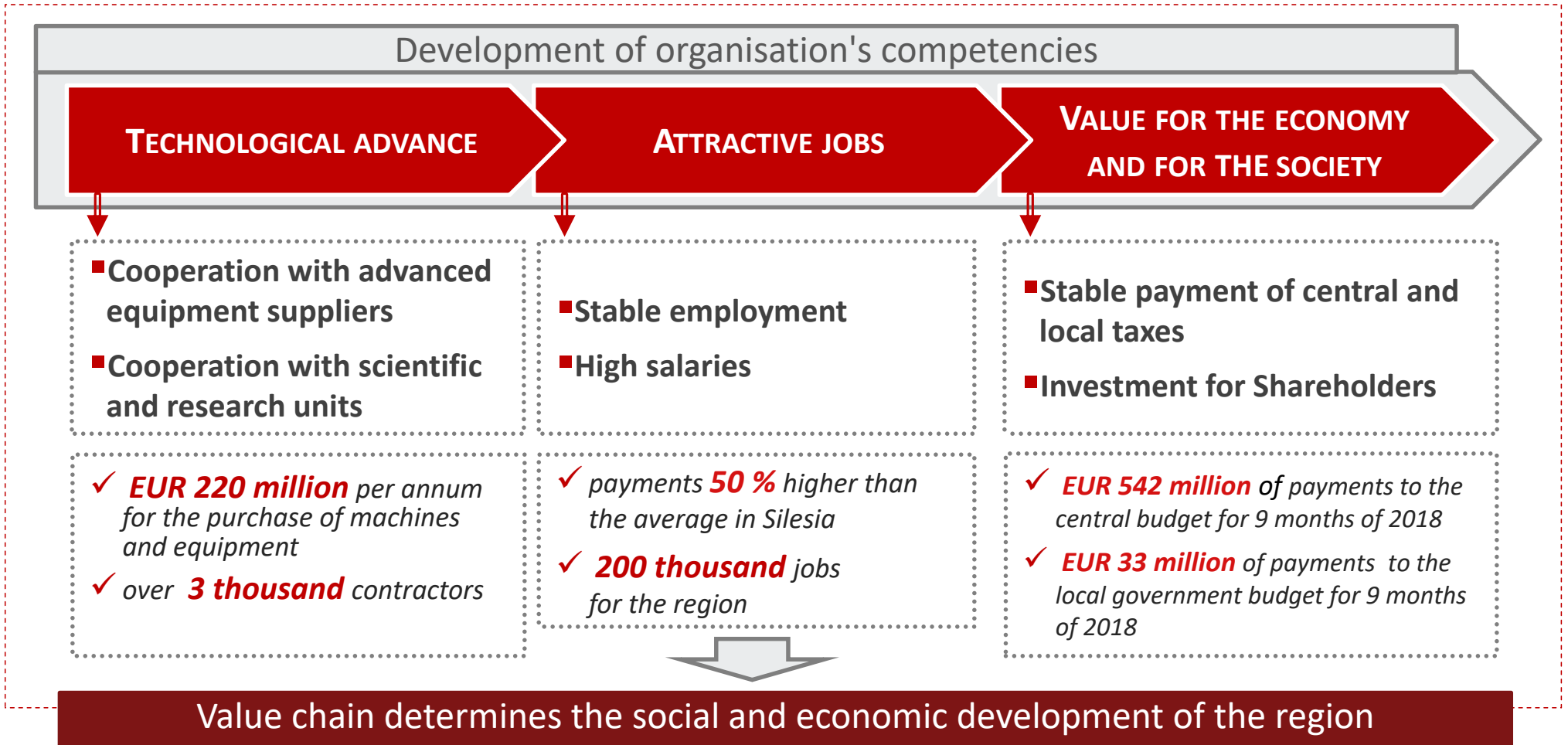
POLSKA GRUPA  
GÓRNICZA

# PGG's recommendations for socially responsible energy transition and company approach



*3<sup>rd</sup> Meeting of the Platform for Coal Regions in Transition;*  
5-6 November 2018; Brussels

# PGG as a value chain generator



## Value chain potential in numbers

**EUR 2.6<sup>BN</sup>**  
of turnover

PGG annual turnover - funds for the Silesian Region:

- ❑ **12.3 thousand sq. km** of area
- ❑ **4.5 million** people
- ❑ **1.7 million** working people

**200 THOUSAND**  
jobs

Employment at PGG and its surroundings:

- ❑ **42 thousand** people working at PGG, including **76%** at the age of up to 45 years
- ❑ **3.1 thousand** companies, that PGG cooperates with every year

# The conditions of responsible transformation



# An example of post-mining area development



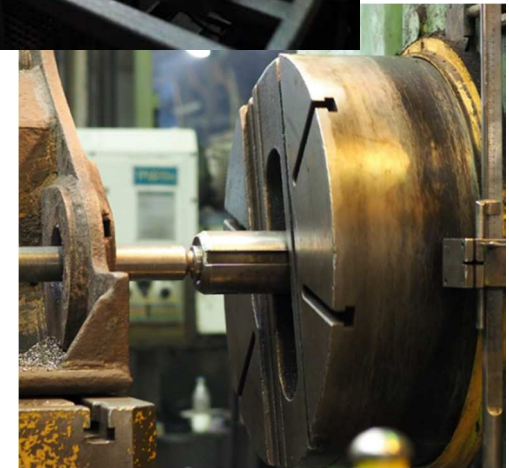
## One of the locations



**5 production floors - 1.3 ha of area**

## Resources: assets

- **8** production floors in **3** locations - **2.15 ha** of surface area
- **18** cranes 5 - 20 t
- **60** welding posts
- **CNC** thermal cutters
- **Chromium-nickel alloy** hardfacing devices
- **Robots** for metal plate bevelling
- **Water** cutters
- **Airless** shot-blasting machines
- **Turning lathes, boring machines, milling machines** (including CNC machines)
- **Modern** paint shops
- **Research and working** posts



# Resources: specialists

- **153** welders  
(95% with the highest UE qualifications)
- International Welding Engineers (IWE)
- International Welding Technologists (IWT)
- Quality control staff
- Constructors and technologists
- Highly qualified workers in the field of machining, programming and CNC machine operation, anti-corrosion protection



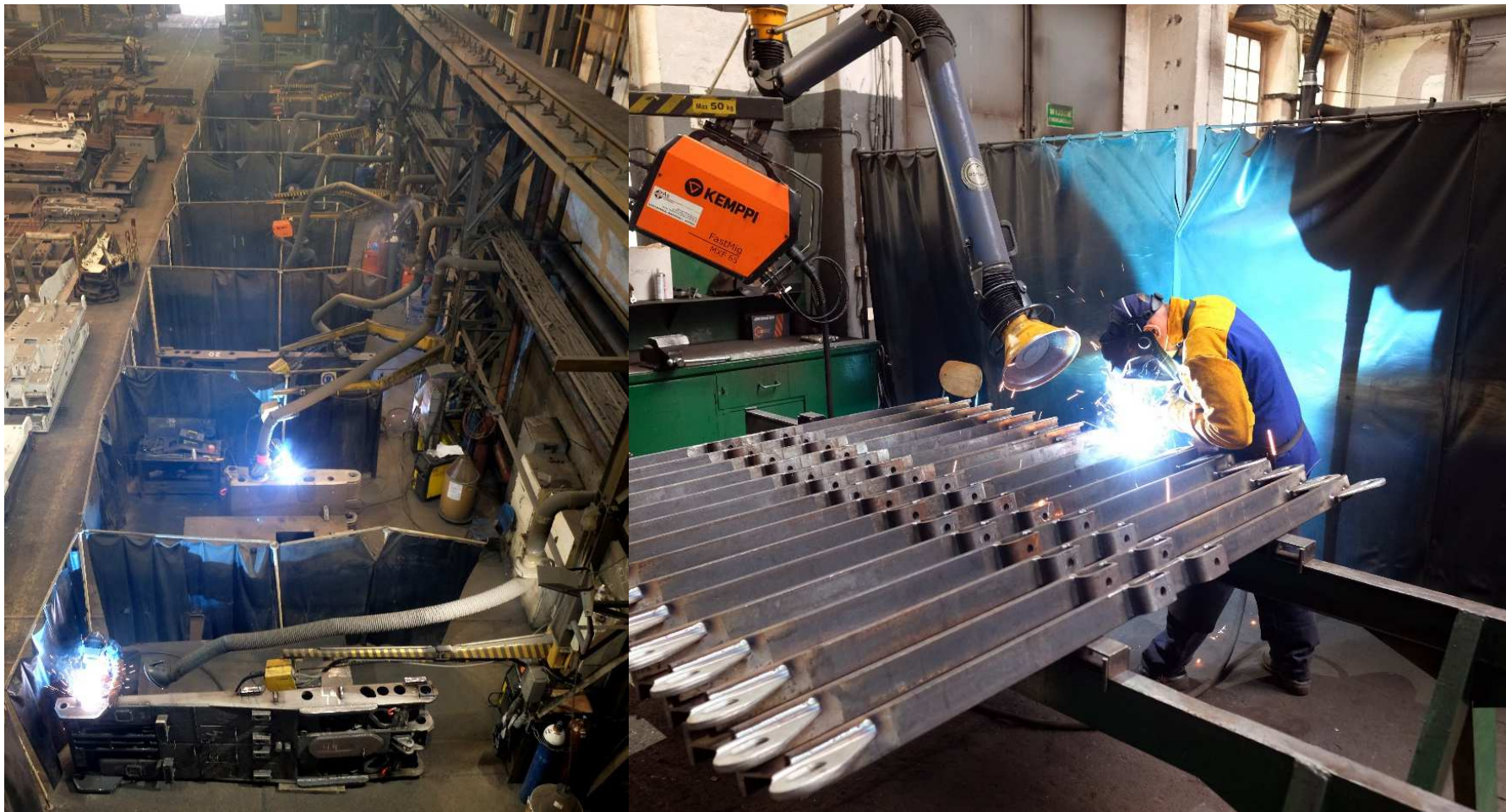


# Broadening the competencies - construction and technological facilities

- Construction and Technology Department
- Chief Welder Department
- Quality Control Department



# Welding posts



# Computerized Numerical Control machines (CNC)



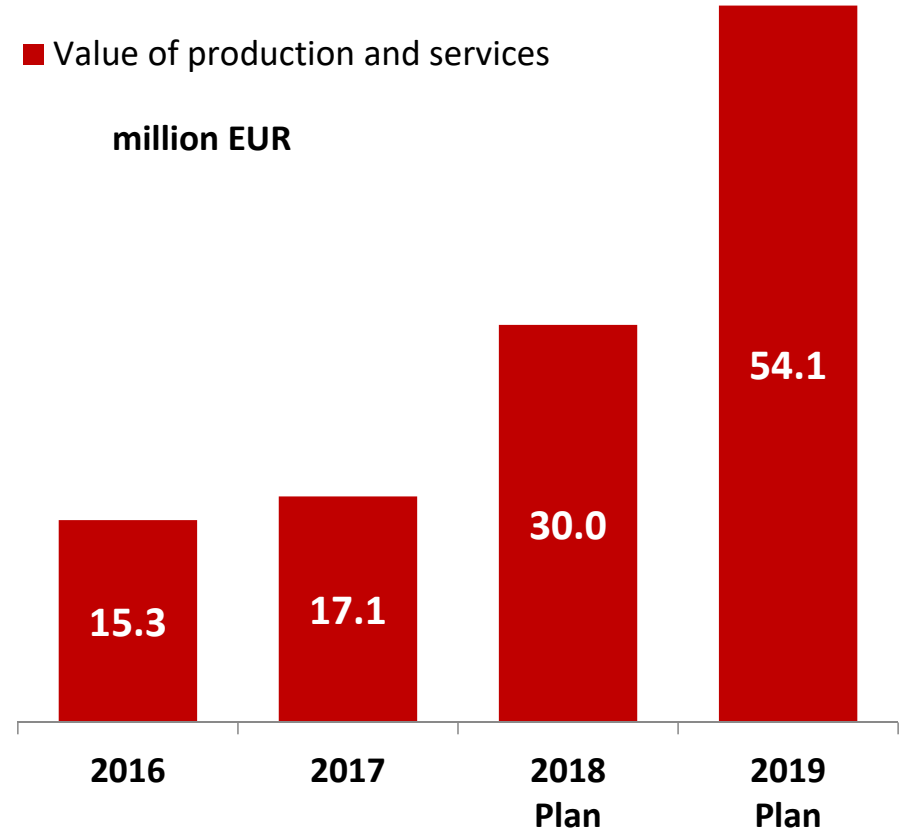
## Construction of process lines - plans

- Automated process line for Submerged Arc Welding (SAW)
- Automated post for the production of elements by use of the LASER + MAG method



# Data showing the facility's development

[persons]	2016	Plan for 2019
Employment	307	600
Welding staff	104	170
Welding supervision staff	6	10
Quality control staff	10	18
Constructors and technologists	6	18
Turners, machinist millers, CNC machine operators, fitters		



# Diversification

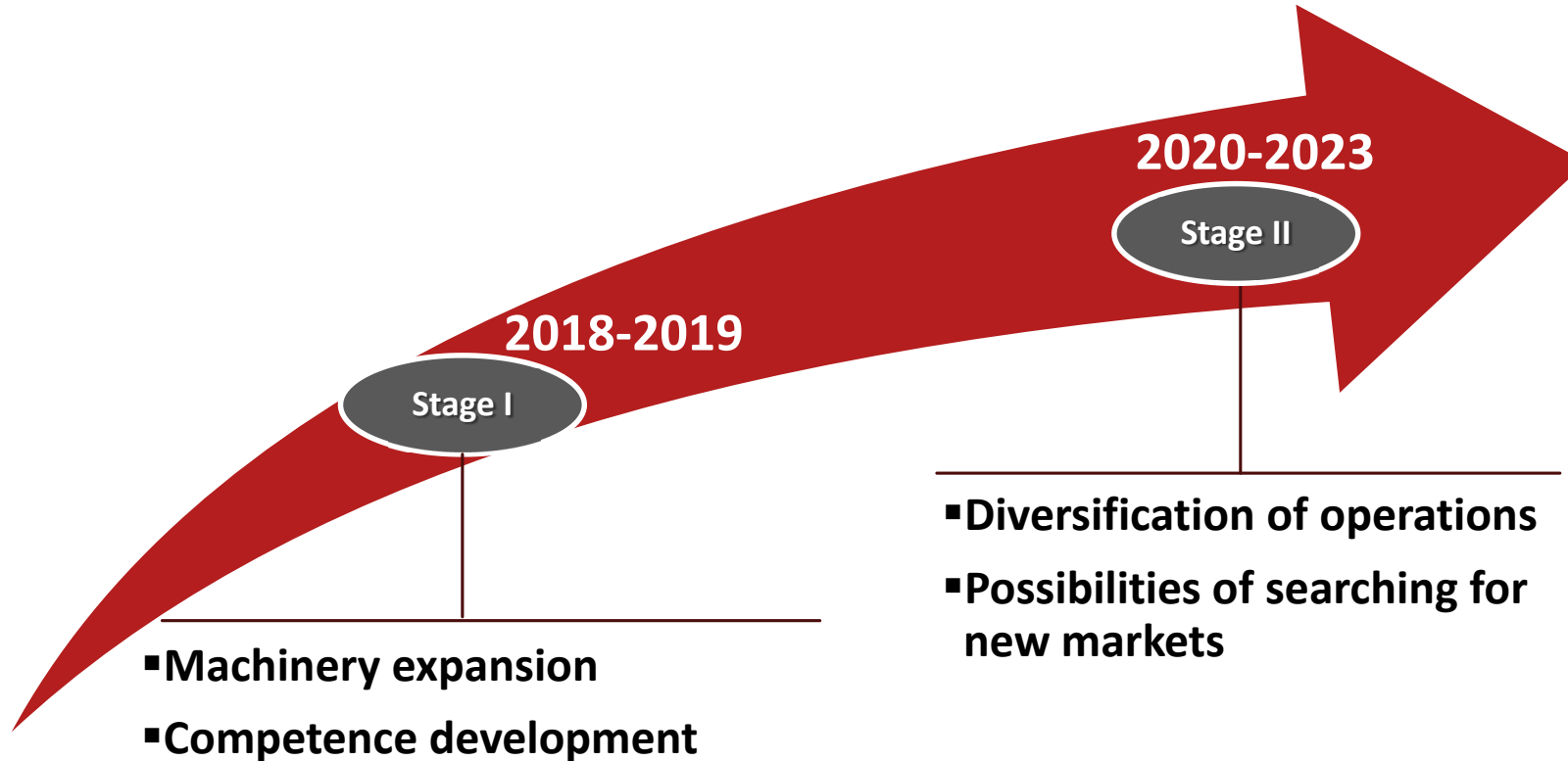
## Developed competencies



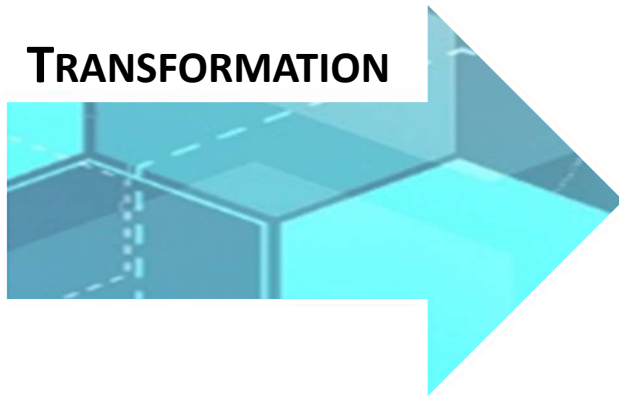
## Possibility to use competencies



# One of the biggest welding facilities in Central Europe - development plans



# Recommendations



- **VALUE CHAIN PROTECTION**
- **RESPONSIBLE TRANSFER OF COMPETENCIES TO A SUSTAINABLE BUSINESS**
- **PROCESS IMPLEMENTATION WITH THE ENGAGEMENT OF MINING COMPANIES**
- **PROVIDING THE APPROPRIATE LEVEL OF FINANCING**
- **PLANNING THE APPROPRIATE TIMELINE**



# Valuation of the costs of replacing jobs in mining - expert opinion



Uniwersytet  
Ekonomiczny  
w Katowicach



## MAIN ASSUMPTION:

- focus on mature and technologically specialised branches  
- e.g. automotive, comprehensive construction

## TRANSFORMATION COSTS

**EUR 44 BN**

## IMPLEMENTATION CONDITIONS:

- interested investors
- specific investment projects
- financial support
- market absorbency



POLSKA GRUPA  
GÓRNICZA

**Thank you for your attention**

**Tomasz Rogala**  
CHIEF EXECUTIVE OFFICER

tomasz.rogala@pgg.pl

T: +48 32 757 2000

M: +48 666 349 793



*3<sup>rd</sup> Meeting of the Platform for Coal Regions in Transition;*  
5-6 November 2018; Brussels