

# **TECOS – Industrial DIH of Slovenia**

Slovenian Tool and Die Development Centre

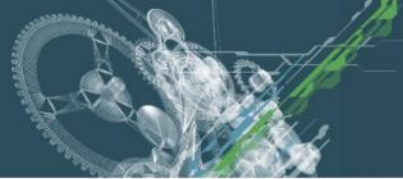
**BALKAN FORUM 2022**

5th October 2022





# Who we are - what we do?



We help our clients get **latest technology**, **design optimised products** and **troubleshoot problems in production!**



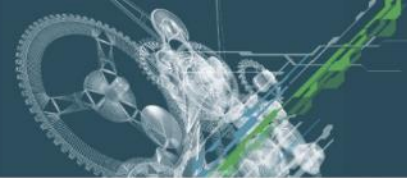


Our Vision.

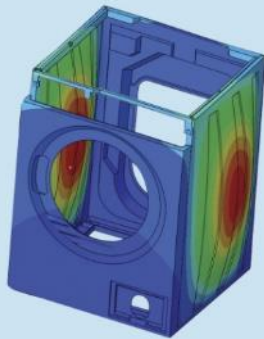


To be a longterm strategic development partner to companies in Slovenia and wider region and to become an European renowned technology center in the fields of development of new products, industrial tools and technologies.



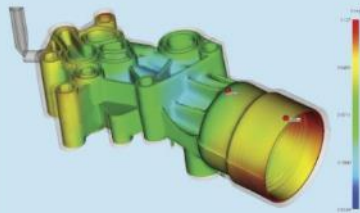


## ENGINEERING SERVICES



Your key to optimised products and stable production processes

## APPLIED RESEARCH



A strong partner in small or large scale R&D projects

## SPECIALIZED TRAINING

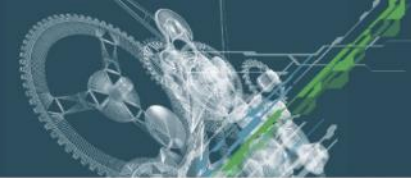


We place knowledge in our customers' environment

## INDUSTRIAL ASSOCIATION



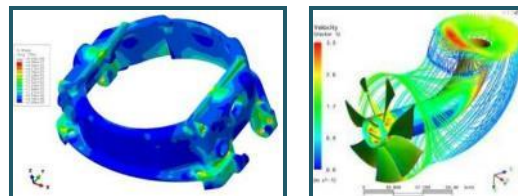
Link to Slovenian toolmaking at home and abroad



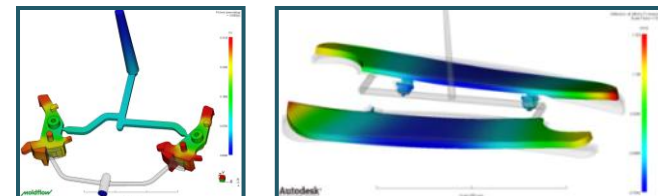
## Turnkey Product Design



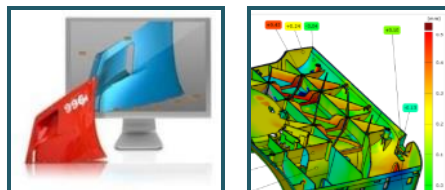
## Advanced Structural FEM analyses



## Injection Moulding Simulations

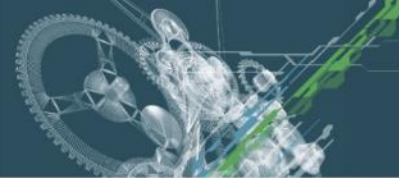


## 3D scanning & Inspection

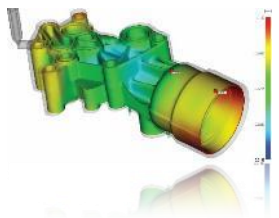


## Rapid Tooling and Prototyping





## - lines of research:

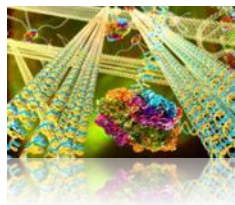


Material Processing  
Technologies



Advanced  
Multiphysics  
FEM analyses

Life-Cycle Assessment



Materials



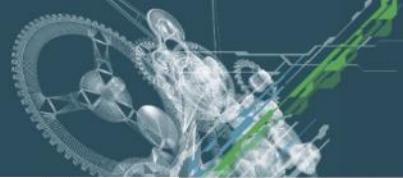
Mechatronics &  
Industrial Sensorics

- project preparation and management
- experts in national and EU public funding
- wide international partner network





Most proud of



More than **600** development project each year

Development partner od **Gorenje, BSH, Hidria, Kolektor...**

Making dreams come true for **small and start-up** companies

**gorenje**  
**Hisense**

**B/S/H/**

BOSCH AND SIEMENS HOME APPLIANCES GROUP

**KOLEKTOR**

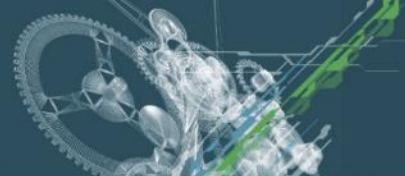
**Hidria**



**ABAQUS**

**gom**  
*Optical Measuring Techniques*





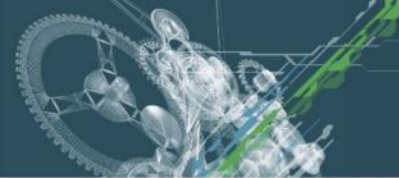
## SRIP Factories of The Future



SRI4TOP  
Strategic Research Innovation Partnership  
FACTORIES OF THE FUTURE







Collecting and linking Slovenian research and innovation know-how and experience in the industry and academia and highlight the priority breakthroughs of new products, technologies and services for global market.

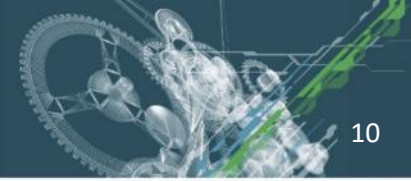
Enabling transition of Slovenian industry towards Industry 4.0.

KET Repository for other SRIPs.

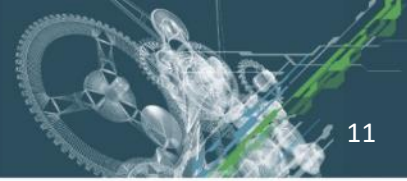


Strategic Research Innovation Partnership  
FACTORIES OF THE FUTURE

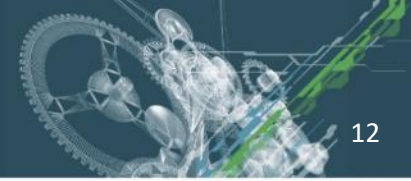




- Increased interest from SMEs towards support in prototyping, demonstration and testing, and quick finding of solutions
- Strategic partnership in DIH Slovenia
- Through SRIP Factories of the future further need for development of DEMO facilities
- I3 partnership
- INTERREG partnership
- Thus we have established DIH Manufacturing

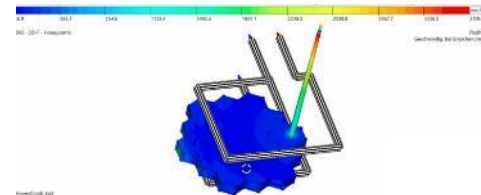


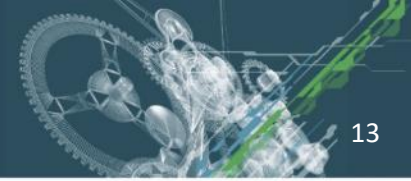
- Connecting Slovenian SMEs in the field of toolmaking, moulding and process production
- Creation of national and international value chains
- Support in acquiring funding
- Testing and prototyping
- Training of SMEs in new technologies
- Training of existing and future experts



www.tecos.si  
info@tecos.si  
+386 3 490 09 20

- EC funded project, started in 2018
- Through peer learning process a pilot action in the amount of 300K was developed, resulting in public call for vouchers for 5 companies in 5 priority areas of Factories of the future as defined in S3.

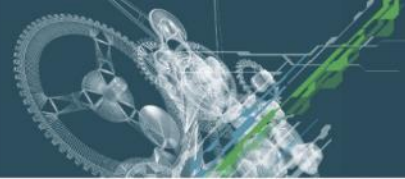




- TECOS was the coordinator together with Ministry of economic affairs
- Resulted in the design and definition of National demo center factories of the future included in the new S4, and in support for the I3 candidature as well – 3DoP is one of the winning proposals



# Industrial Association



Representation of Slovenian metal and polymer processors and tooling industry

Member of International Industrial associations



**ISTMA**  
americas | asia | europe

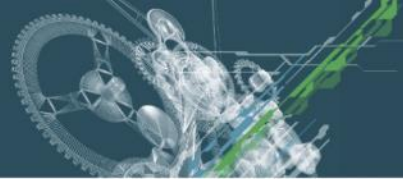


## Your link to Slovenian market!





# Technological Equipment



## Testing, validation & prototype production



## Software



**M** AUTODESK<sup>®</sup>  
MOLDFLOW<sup>®</sup> INSIGHT

CERTIFIED EXPERT

**ABAQUS**

**CATIA**

Siemens PLM Software

**SIEMENS**

**geomagic<sup>®</sup>**

the magic of making it simple<sup>™</sup>

## 3D scanning & inspection



**gom**  
Optical Measuring Techniques



## Specialised Training

- one-day seminars from the fields of toolmaking and material processing technologies
- **your link to accessing Slovenian market**
- on-demand training on the client's location
- excursions to foreign countries for learning and networking opportunities







## Some Facts

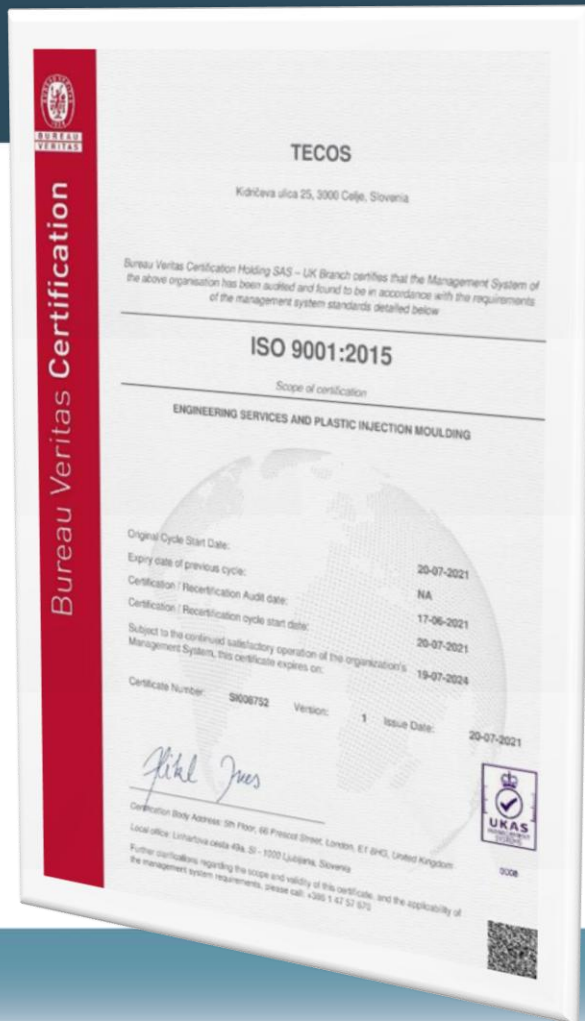
- *Established in 1994*
- *22 employees*
- *1,8+ MIO € yearly budget*
- *Located close to main markets*
- *(German speaking)*

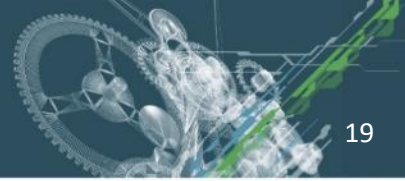




## Some Facts

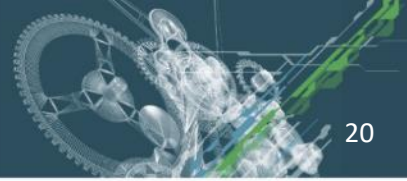
Since 2021 owner of ISO 9001-2015 certificate





## 25 experts covering:

- Mechanical engineering
- Electrical engineering
- 3D printing and scanning
- Moulding technologies
- Fundraising and management
- Business innovation and processes

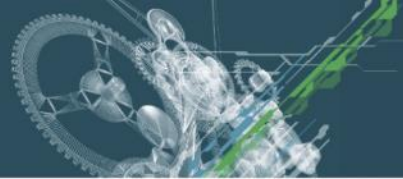


www.tecos.si  
info@tecos.si  
+386 3 490 09 20

- EFFRA
- Vanguard
- JRC S3 platform
- ICEI Alliance
- DIH Slovenia
- ISTMA
- University of Ljubljana, University of Maribor



# A Reliable Partner

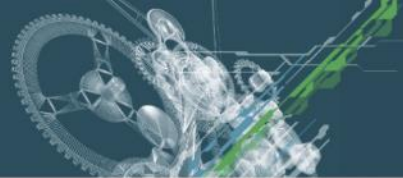


**27 years** of helping our clients **minimising their risks** in product development and industrialization

Team of **dedicated experts** with **passion for delivering optimised solutions**

**State of the art** technological equipment from **market leading suppliers**



**Contact:**

dr. Aleš Hančič, *managing director*

ales.hancic@tecos.si, +386 (0)3 490 09 21

Simona Knežević Vernon, *Head of the industrial Association*, simona.vernon@tecos.si



**TEC**  **TECOS**  
RAZVOJNI CENTER ORODJARSTVA SLOVENIJE

[www.tecos.si](http://www.tecos.si)

