

Take a break for innovations

Your Research - Your Impact: *the role of Technology Transfer*

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SOCIAL IMPACT

- any **significant** or **positive changes** that solve or at least address **social injustice and challenges**.
- can be created in any way through the **17 Social Development Goals** (SDGs) covering all three dimensions of sustainability **social, economic** and **environmental**.

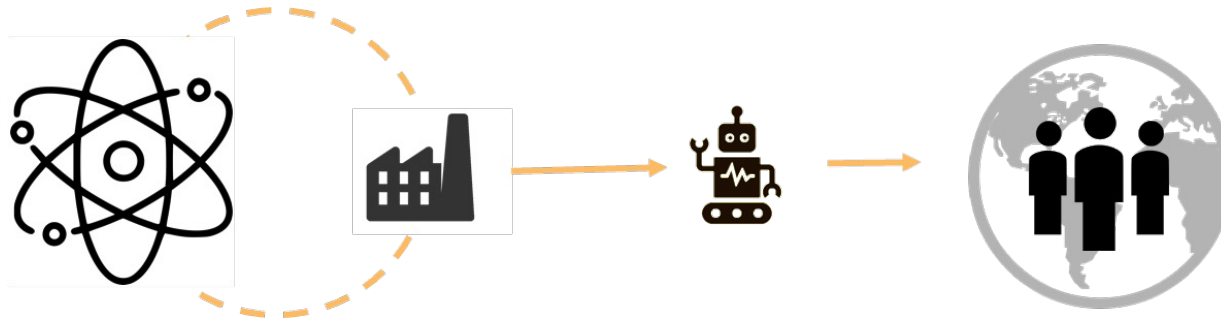


<https://sdgs.un.org/goals>

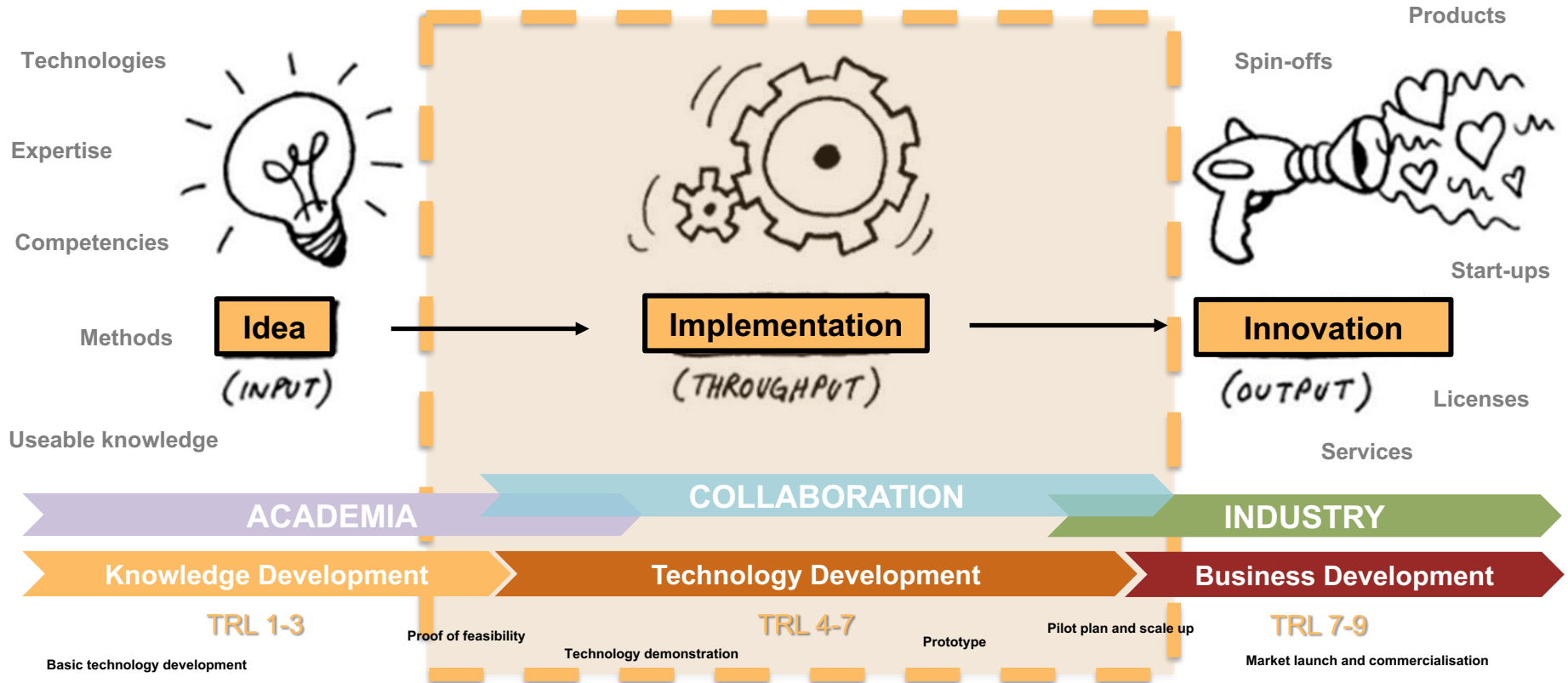
The Role of Technology Transfer

From ideas to social innovations

- Technology Transfer (TT) ensure that ideas and technologies from research reach society and industry.
- TT has the task of making the broad know-how, competencies and technologies available to society and thus also to the economy in an even more targeted manner.



→ GSI/FAIR Transfer Strategy,
rev. April 2021



Innovation is "the process of translating an idea or invention into a good or service that creates **value** or for which customers will pay."



**“The value of an idea lies
in the using of it.”**

Thomas Edison



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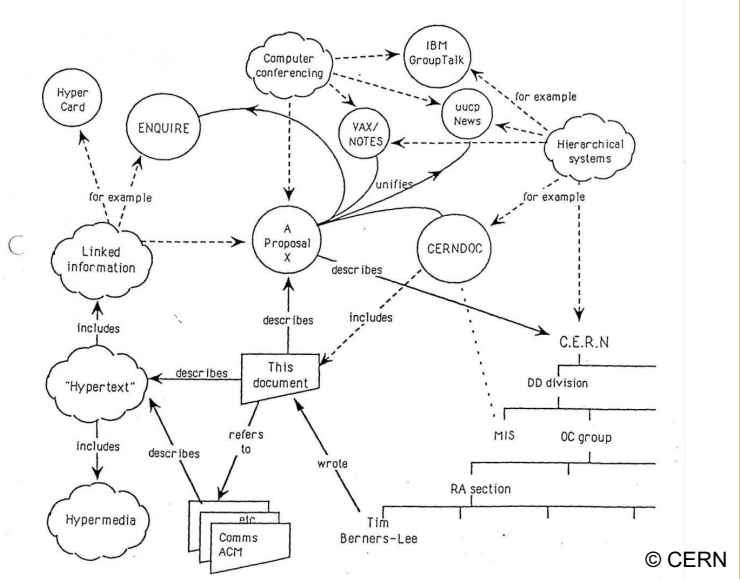
Tim Berners-Lee

invented the world wide web in 1989,

while working at CERN. The web was originally conceived and developed to meet the demand for automated information-sharing between scientists in universities and institutes around the world.

www.info.cern.ch.

Berners-Lee's boss found the idea "vague but exciting" and provided Berners-Lee with a new computer and the **freedom** to flesh out his proposal.



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- **Finding problems for our solutions** - finding applications in industry and society



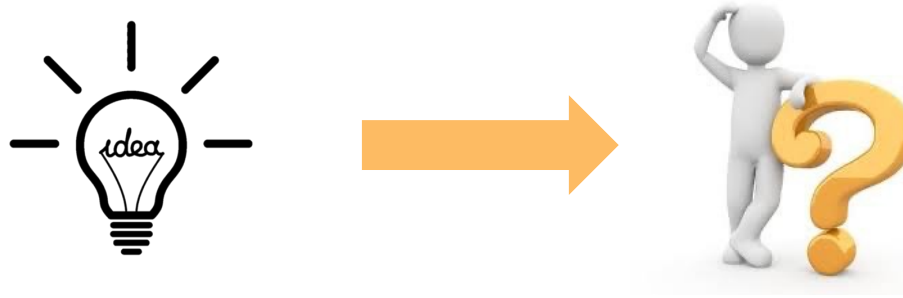
Talking with industry about (our and) **their** needs...

Talking to industry and finding partners

Industrial Exhibitions, AIMEs, Networks & Ecosystems



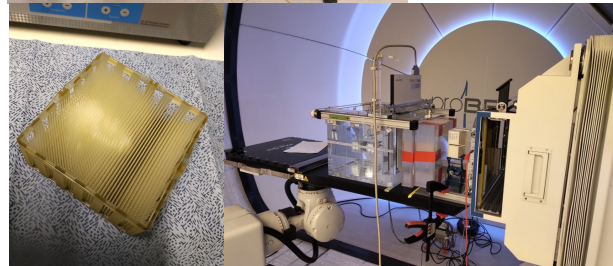
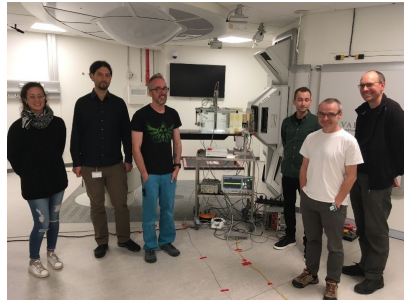
- **Finding problems for our solutions** - finding applications in industry and society



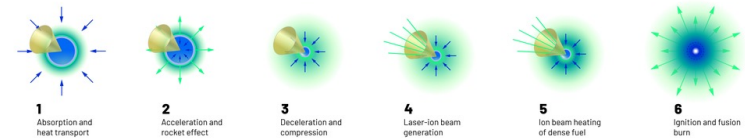
Talking with industry about (our and) **their** needs...

Collaborations and **strategic partnerships** with companies and start-ups to explore new technology topics and trends.

- **GSI-Varian cooperation on range modulators for pFLASH**

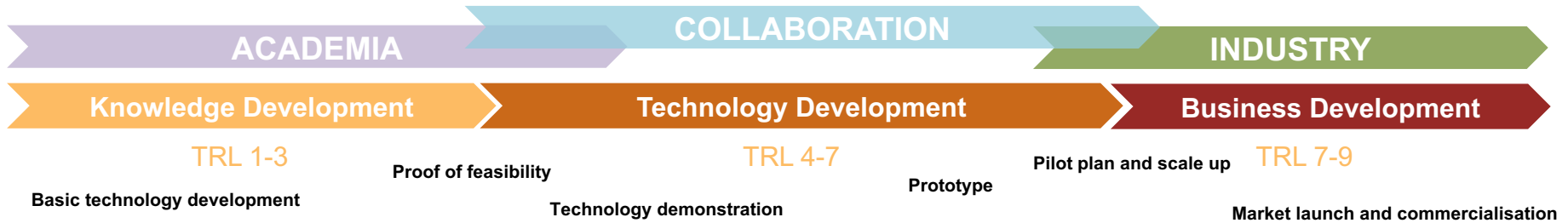


- **GSI/Focused Energy cooperation - Mapping out the parameters for inertial confinement fusion**

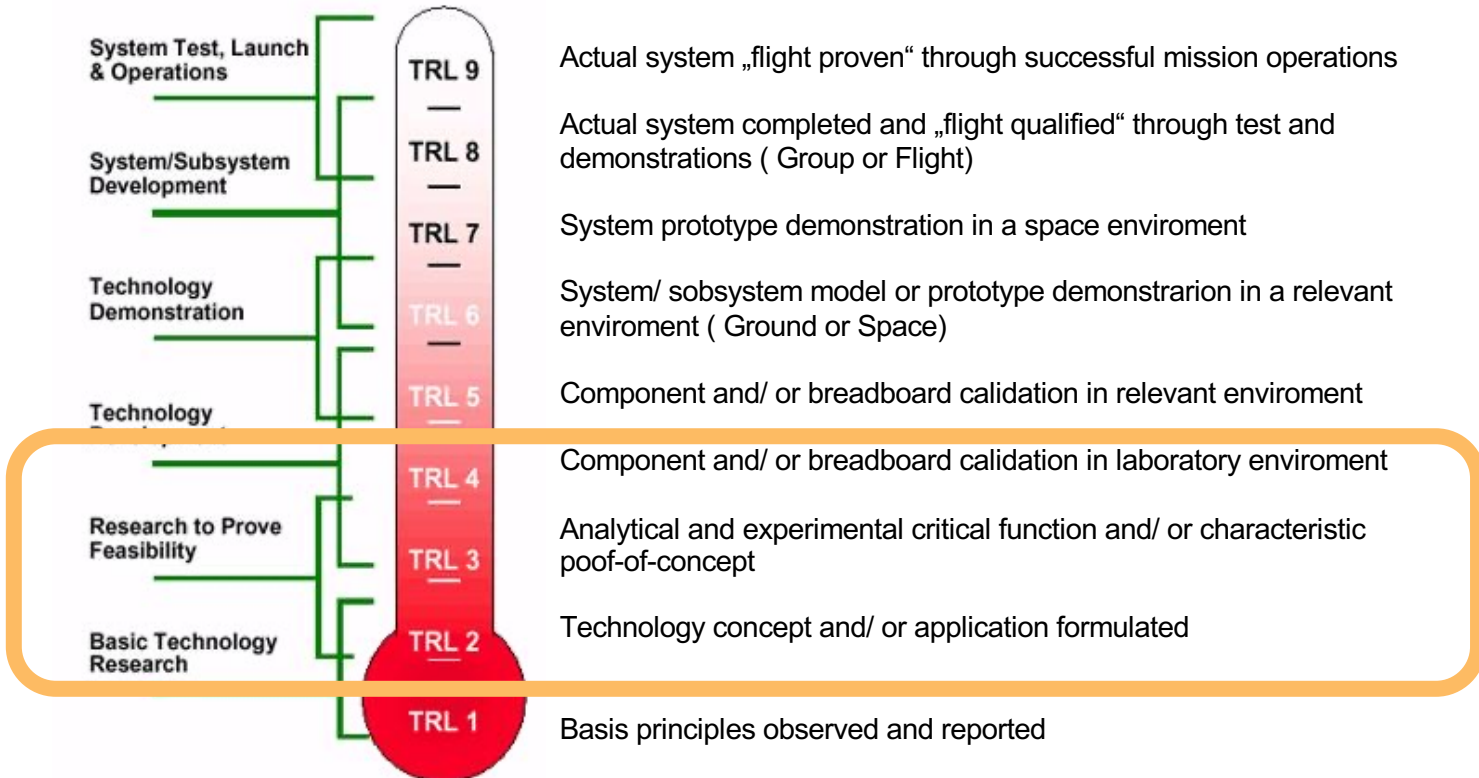


Source: <https://focused-energy.world/>

- **Low Technology Readiness Level (TRL) of technologies and high R&D need**

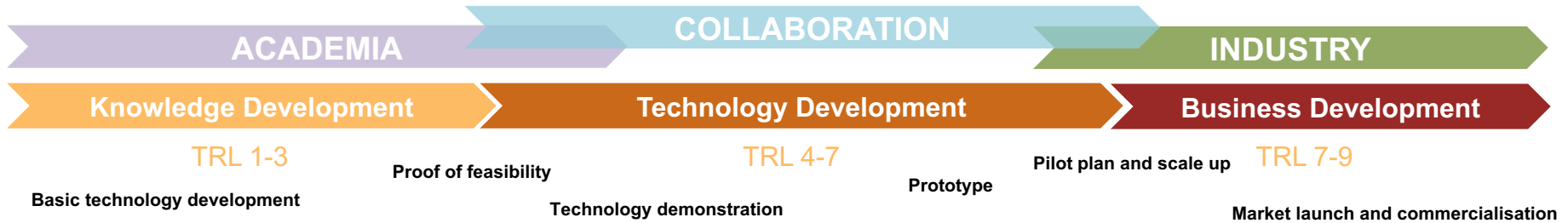


NASA/ DOD Technology Readiness Levels



Source: Department of Defense, Technology Readiness Assessment (TRA), 2011

- **Low Technology Readiness Level (TRL)** of technologies and **high R&D** need

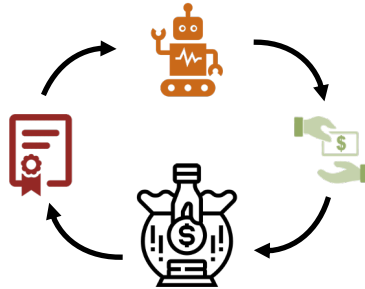


- Finding **financial tools/support** to bridge the gap between fundamental research and industrial standards...

Funding opportunities in Technology Transfer

Internal Innovation Fund and Public Funding

→ GSI/FAIR Innovation Fund



→ Public Funding Opportunities



VIP+

ACADEMIA

COLLABORATION

INDUSTRY

Knowledge Development

Technology Development

Business Development

TRL 1-3

TRL 4-7

TRL 7-9

Proof of feasibility

Prototype

Pilot plan and scale up

Market launch and commercialisation

Basic technology development

Technology demonstration

FAIR/GSI - Innovation Fund an Innovation Cycle



Start in 2022: 3 project funded
2023: 6 projects funded
Yearly budget: approx. 300 k€

HELMHOLTZ



Research Departments
Inventors

Funding by HGF

FAIR/GSI
Innovation Fund



financial support of

financial return to

Own share GSI

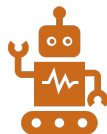
* **Revenues** from:

- IP commercialisation/licensing
- Sales and services
- Contract research and manufacturing



- Feasibility studies
- Validation projects
- Service projects
- Start-up projects

increase of

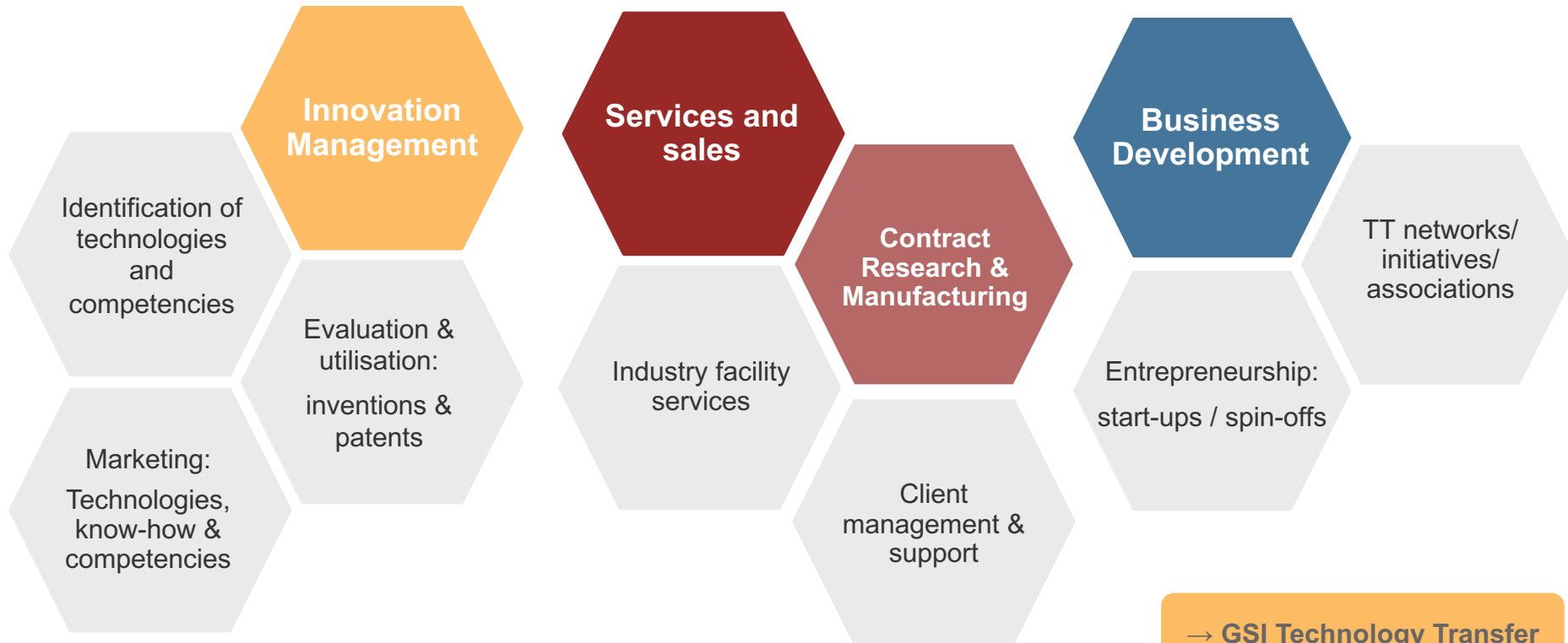


Product-oriented **validation**
and **further development** of
market-relevant technologies

enabling

GSI/FAIR Technology Transfer

Overview of main tasks



→ [GSI Technology Transfer](#)

GSI/FAIR Technology Transfer

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Thank you for your attention!

You are welcome to contact us at any time or even visit us directly in our office.

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