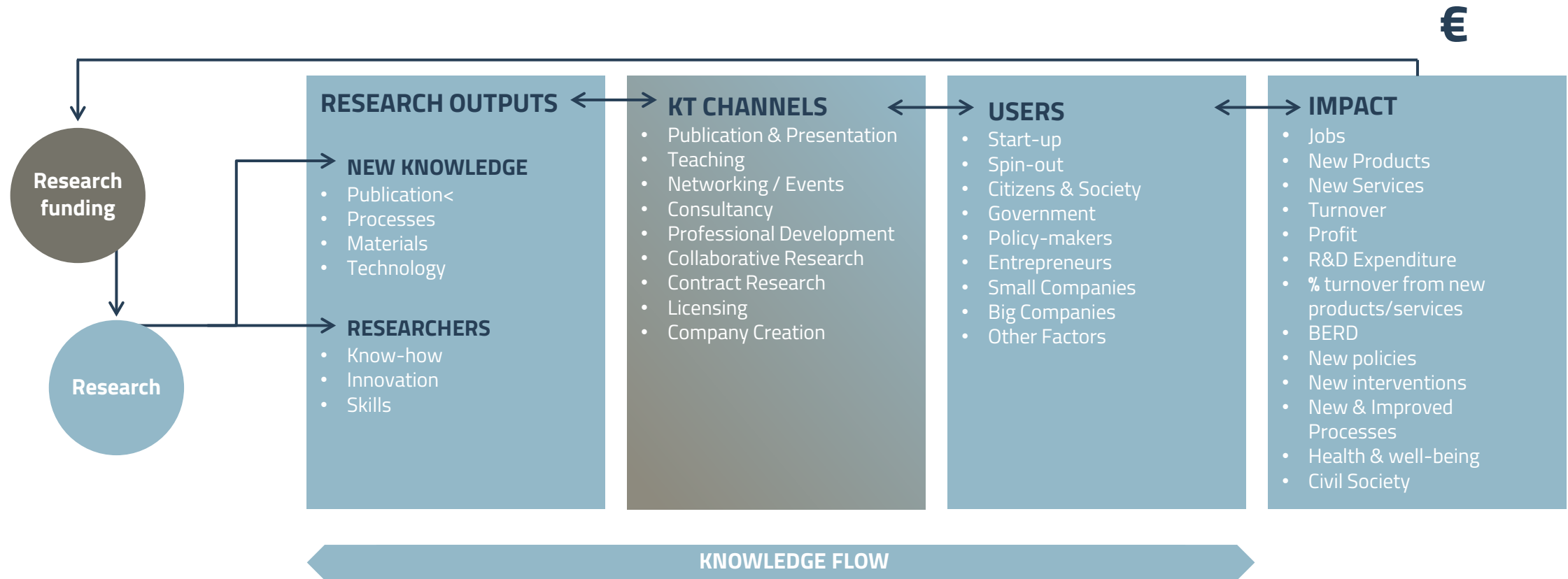


Knowledge transfer: From research results to measurable business impact

Knowledge transfer at JSI • Robert Blatnik, Head of KTO • 21 September 2026



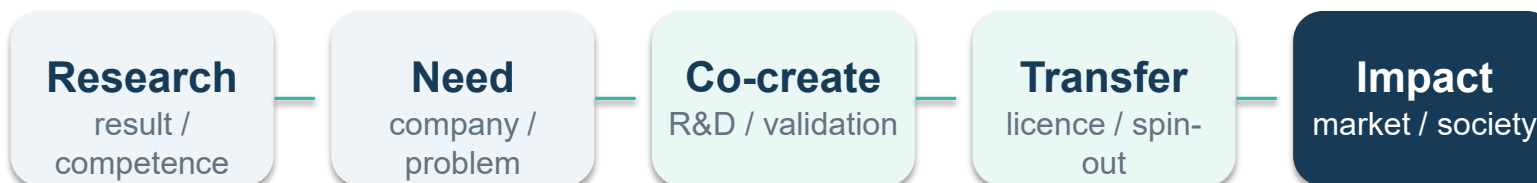
Source: Campbell et al. (2020), *Knowledge Transfer Metrics*, European Commission JRC / Competence Centre on Technology Transfer, with ASTP.



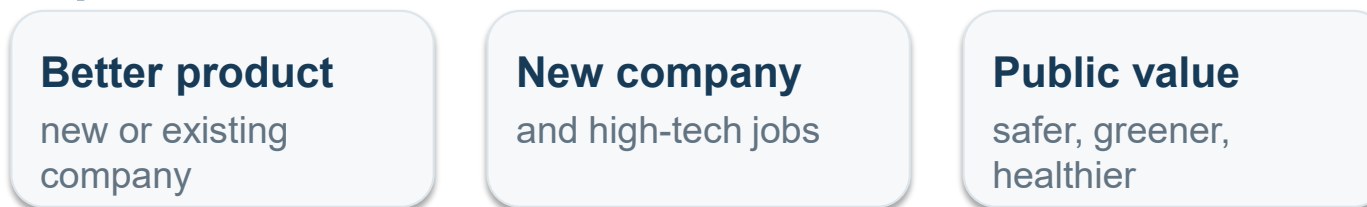
What we do

- 1 MATCH**
industry challenge ↔ research competence
- 2 BUILD**
collaborative R&D and long-term partnerships
- 3 PROTECT**
IP, know-how, contracts and licensing
- 4 CREATE**
spin-outs and routes to market

A practical impact pathway



Impact can take



“Our job is to make the next step easier.”

Right partner • right transfer route • right support

Cocreation of innovation support system → Capacity building / national KTO consortia → Promotion, Education & Training, Events → International networks (ASTP, EEN, JRC TTO Circle, EPO PATLIB, WIPO, EARTO, ...)

Industry collaboration: value is co-created

Two examples where JSI expertise was integrated into real industrial and infrastructure challenges

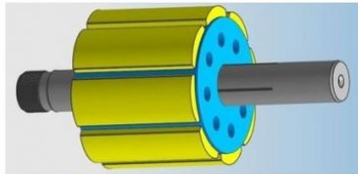


MOBILITY

MAHLE + JSI

Electric motor design for vehicle steering systems

- Simulation-based optimisation coupled with finite-element modelling
- Statistical evaluation included manufacturing tolerances
- Result: technically advanced, cost-effective motor design
- Collaboration initiated through JSI technology-transfer support



TARAS AWARD 2023

ENERGY

DyThera

Dynamic Line Rating: research → deployment → international market

ELES

need

JSI

R&D

Operato

commercialisation

SUMO

deployment

- Advanced Dynamic Line Rating software deployed in the SUMO Dynamic Rating System
- Recognised by EARTO for demonstrated impact – 1st prize

EARTO 2026 • IMPACT DELIVERED



CO-CREATION PRINCIPLE

Start from a real problem → bring the right research team → validate together → transfer into use

Spin-outs: research results becoming companies

Different science domains — one route of commercialisation



QUANTUM

AtomQL

Cold-neutral-atom quantum computing

SEMICONDUCTORS

Particulars

Instrumentation for semiconductor characterisation

BIOTECH

Alpha Factor Biotech

Synthetic nanobody discovery without animal immunisation

BIOTECH

LactoThera

Engineered bacteria for oral delivery of therapeutic proteins

TECH-BIO

Infinite Biotech

Next-generation safety testing and disease modelling

LAB AUTOMATION

JinkaLab

Bridging the digital and physical worlds of laboratories

LactoThera is a joint spin-out of JSI and the University of Bologna.

JinkaLab is a joint spin-out of JSI and Slovenian institute Rudolfovo.

Spin-outs are one transfer route when a technology needs a dedicated company to reach the market.

Industry access to people, expertise and infrastructure

Technology transfer also happens through researchers, facilities, services and innovation networks



TALENT & SECONDMENTS

PD

SQUASH

International postdoctoral researchers • intersectoral mobility • strong links with non-academic partners → **R&D quantum tech**

MSCA & ARIS

AI & HPC

AI

SLAIF

AI expertise, high-performance computing, data and support services for companies and start-ups → **design, test, and deploy AI**

EUROHPC-2024-CEI-AI-02 call

SEMICONDUCTORS

CHIP

CC Chip.si

One-stop shop for technology access, training, consultancy and networking → **chip design and production**

EU Chips Joint Undertaking & Republic of Slovenija

RESEARCH FACILITIES

RI

JSI Infrastructure

TRIGA reactor and specialised laboratories for research, irradiation, testing and validation → **neutron & gamma radiation object resistance & measurements**

Enterprise Europe Network + U7

international partner search • innovation support • access to EU opportunities

From individual TTOs to a national knowledge-transfer network

Building shared capacity across Slovenia's public research organisations



KTO3

10 public research organisations

Coordinated by Jožef Stefan Institute

UNIVERSITIES

3 public universities

Led by the University of Ljubljana

13

public research organisations

shared tools • professional capacity •
coordinated knowledge valorisation

What the network enables

- ✓ Find the right research team
- ✓ Share TT know-how and tools
- ✓ Access technology / IP
- ✓ Support spin-outs & projects
- ✓ Connect to national & EU partners

<https://prenosznanja.si>

CO-FINANCED BY

Republic of Slovenia, the Ministry of Education, Science and Youth, and the European Union through the European Regional Development Fund (ERDF).



ITTC 2026: turning co-creation into a repeatable practice

The annual national meeting point for knowledge valorisation



ITTC 19

19th International Technology Transfer Conference

LET'S INNOVATE THE FUTURE

7 & 9 OCTOBER 2026

**Strengthening Industry–Academia
Co-creation for more Efficient
Knowledge Valorization**

Organised by partners from both national KTO consortia •
13 PROs • JSI as leading responsible partner

- Academia–industry knowledge exchange
- Research-to-industry innovation transfer
- Technology transfer capacity building
- TT & IP scientific papers
- Best Innovation Award
- WIPO IP Awards

2,600+ participants at previous editions

policy makers • funding agencies • researchers • industry • investors • TTO professionals



LET'S
INNOVATE
THE FUTURE



1

Industrial challenge

We connect it to the right JSI research team.

2

Technology need

We identify expertise, IP, infrastructure or a development route.

3

Project idea

We help build the partnership and the transfer / exploitation path.

4

Market opportunity

We connect technologies, spin-outs and international partners.



We proactively seek out challenges, technologies, and project ideas with transfer potential.

Our task is to connect it with the right people and the right transfer pathway & help to execute.