



TECHNOLOGY TRANSFER PLATFORMS at the Technical University of Kosice

Anton Čižmár
anton.cizmar@tuke.sk

Introduction

- **Technology transfer (TT), is a complex matter.**
- **Historical, economic, cultural circumstances will affect the policy choices.**
- **General checklist of possible measures exists.**
- **Encouraging TT at the TUKE a couple of years ago.**
- **R&D results made available to society through their commercialization.**
- **Intellectual property (IP) rights - tool to promote UNIV-IND partnerships.**
- **Educational and research mission of universities!**

Introduction

- Our effort is on how to create the **appropriate climate** at the university in the field of technology transfer to industry.

- We need:
 - a) **modern** offices, labs and ICT infrastructure,
 - b) **critical mass** of students and researchers,
 - c) part of them **strongly enthusiastic**, dedicated
 - d) **support for TT** from the highest level of the university and faculties
 - e) **many new ideas** and R&D outcomes for implementation in practice

TUKE – basic data

History	65 yrs
Students	9 000
From abroad	770
People	2 000
Teachers	800
Alumni	87 500

Area	43 ha
Cities	2
Campuses	3
Buildings	105
Total assets (mil.EUR)	160
Rvn FY2017 (mil.EUR)	65

Interesting composition of faculties

- 1. Mining, Ecology, Process Control and Geotechnology (1952)**
- 2. Materials, Metallurgy and Recyclation (1952)**
- 3. Mechanical Engineering (1952)**
- 4. Electrical Engineering and Informatics (1969)**
- 5. Civil Engineering (1977)**
- 6. Economics (1992)**
- 7. Manufacturing Technologies (1992)**
- 8. Arts (1998)**
- 9. Aeronautics (2005)**

Some of possible measures

(http://www.wipo.int/export/sites/www/policy/pdf/en/ui_checklist.pdf)

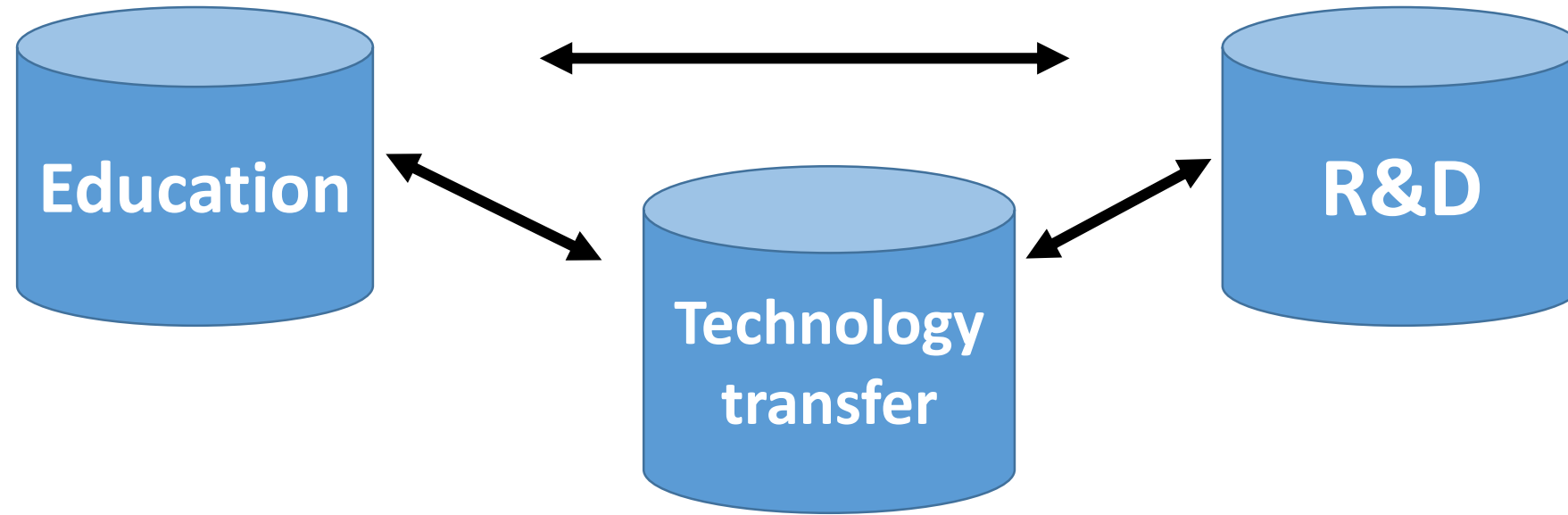
National Policy

- **University legal status**
- **Programs to establish TTOs**
- **Requirements to commercialize inventions**
- **Seed funding for spin-offs and start-ups**
- **Strengthening education on IP**
- **Development of skilled human resources**
- **Patent funds and/or fee discounts**
- **etc.**

University Policy

- **Establishment of TTO**
- **Spin-offs and start-ups**
- **Clear and transparent IP policy**
- **Patenting decisions**
- **Marketing patented technology**
- **Income/royalty distribution**
- **Conflicts of interest**
- **etc.**

TUKE policy



University Science Park TECHNICOM

- Start-up Centrum
- Incubator TUKE
- Joint R&D laboratories with industry
- Intellectual Property Rights management
- Support for education, training and presentation

USP Technicom - milestones



2010

Start – part 1
Financing from
the government
budget



2013

part 2
Financing from
the EU funds
– phase I



2015

part 3
Financing from
the EU funds
– phase II

2017

Opening

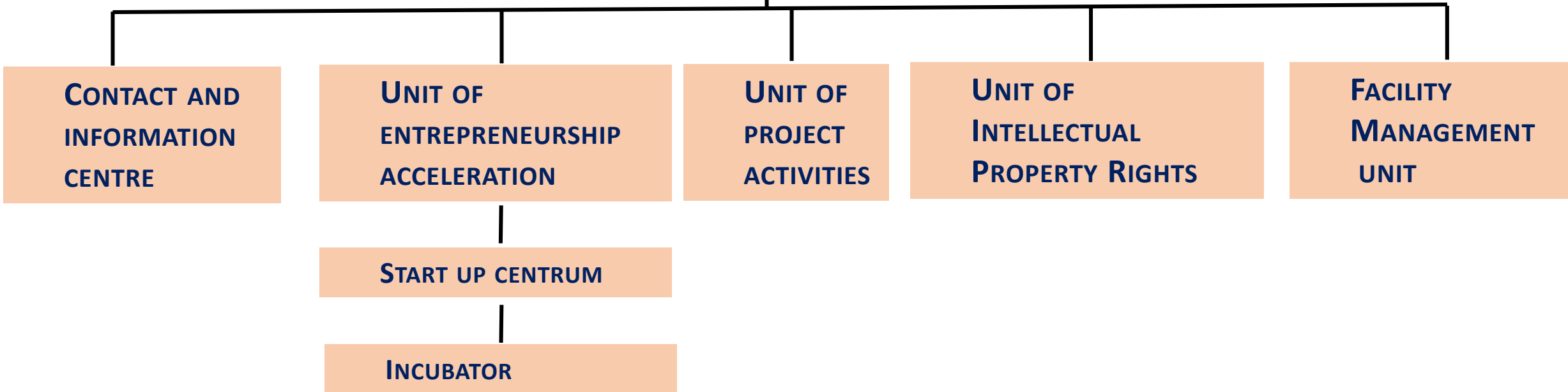
UVP TECHNICOM - Organizational chart

PRESIDENT

VICEPRESIDENT

CEO

**BOARD OF FACULTY,
INDUSTRY MEMBERS**



Technicom at TUKE offers

Technicom is more than just real estate. We offer a **sense of community!**
It's an ecosystem that merges business, education and research.

Our tenants are in contact **every day** with top TUKE departments and researchers.

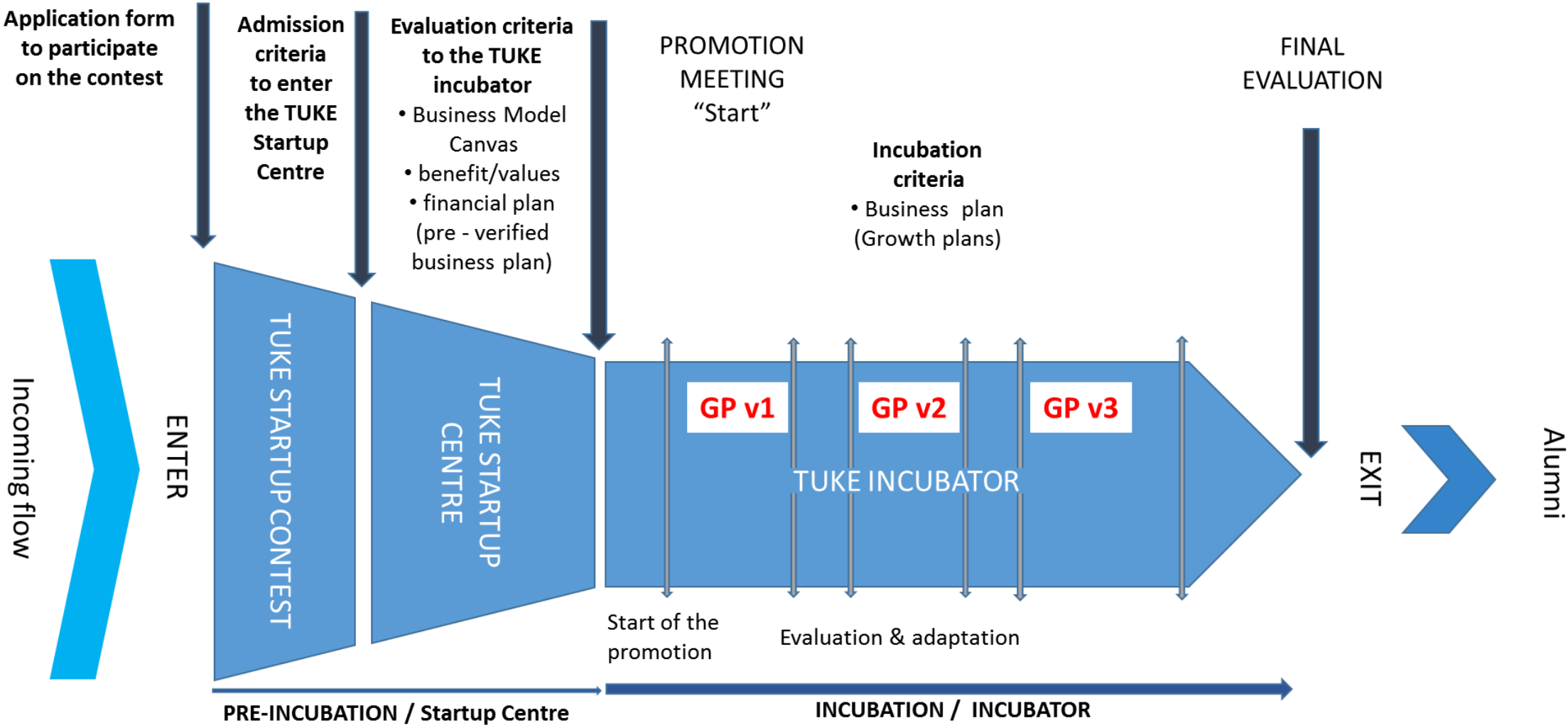
We offer innovative resources and **support** for start-up companies.

The Incubator Team/Program - SWOT analysis to **help** business owners.

Other features include:

**Flexible office/lab space,
High Speed Internet Services,
Presentation Center,
Conference Room and
Lunch/Cafeteria Room.**

Acceleration of innovative entrepreneurship model



Cooperation with Swedish incubator LEAD (SAAB)

SAAB and TUKE enter a new phase of collaboration

- Since 2015 SAAB actively supports innovation ecosystem at TUKE.
- 25 May 2017 a new agreement signed between SAAB and TUKE to prolong cooperation.





The legal process



1. the cooperation agreement (with natural persons only)
2. lease agreement (optional)
3. duration of the contract – 6 months
4. interim evaluation of work after 3 months
5. final evaluation of business plans after 6 months
6. selected entrepreneurs will advance to the Incubator TUKE

1. memorandum of cooperation and services agreement (with legal persons only)
2. non-disclosure agreement
3. lease agreement (optional)
4. duration of the contract – 12 months
5. option to extend the contract for another 12 months - after professional review
6. maximum duration of the contract – 36 months

How to enter Startup centrum TUKE

- Project selection is realized by the competition „**Máš nápad? Prezentuj svoj startup!**“ twice a year.
- Since 2014
 - **90** innovative projects started,
 - **45** for 6 months period in Start-up centre.
- UVP Technicom hosts now **25** startups, e.g.
 - CropTech – Startup awards winner,
 - Fitliner Training – finalist of Mladý inovatívny podnikateľ 2016,
 - VIZUALIZACKY – winner of Business Idea 2014 Tatra banky,
 - Chargebrella – winner of Business Idea 2016,
 - IoTNET – international IBM Hackathon 2017, Cisco StartUp Creathon 2016,
 - HRAI – winner in ICT category, Slovak University Startup Cup 2017.



The latest activity in January 24, 2018

- Start-ups evaluation, after 6 months phase in Start-up centre TUKE
- Coop of TUKE, Slovak Business Agency and SAAB AB
- *Jury approved to shift from Start-up centre to Incubator TUKE the following start-ups:*

BodyFix.io - physiotherapeutic project,
Klavesnica HndCubeKeys - for handicapped people,
Enterprise IoTNET – decentralized IoT solutions,
HRAI - innovative games for mobile devices,
TuLiMark – special tourist marks for passive navigation.



Joint R&D TUKE-Industry laboratories in UVP Technicom

TUKE Sjf – MINEBEA

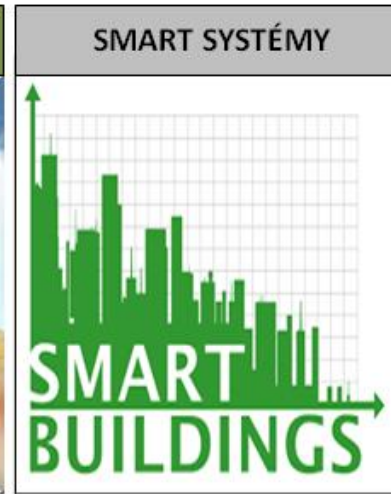
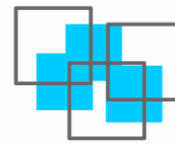
MinebeaMitsumi Soccer-Humanoid Robotic Systems

TUKE – SWAN

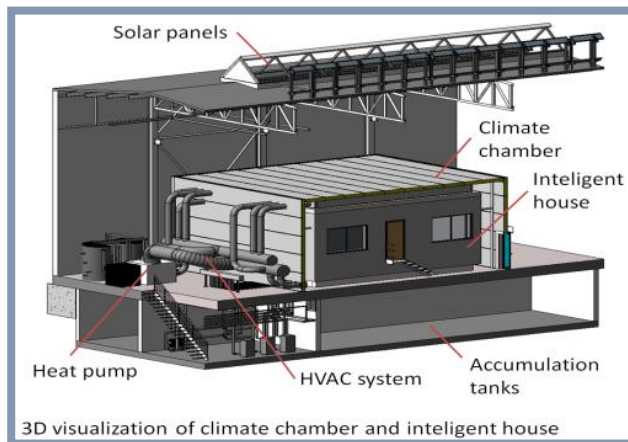
Innovation centre for mobile services and communications

TUKE – CVTI

Innovation centre of ICT and services
for support of R&D and technology transfer



Electrical, Hydrogen, Geothermal, Wind, Solar, Photovoltaic, Biomass





Member of
IASP

International Association of Science Parks
and Areas of Innovation

UVP TECHNICOM
AFFILIATE MEMBER since 2014