



Training in the Frame of the Erasmus+ CBHE Project

Role of Universities in the Regional Development (RURD)
609741-EPP-1-2019-1-GE-EPPKA2-CBHE-SP

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TEIRESIÁS

Training
Masaryk University
Brno, Czech
Republic
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Universal Learning Design and Accessibility of Masaryk University

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1.1. Mission of the Teiresias Centre

1. **Central body of Masaryk University in Brno,**
coordinates university's methodical activities, which ensure:
 - a. **its universal design for learning,**
 - b. **individual adjustments for persons with special needs.**
2. Provides **practical services** for the following target groups:
 - a. **persons with special needs themselves,**
(applicants, students, teachers, administrative staff),
 - b. teachers, administrative and other staff who belong to the mainstream,
but need to co-operate with the previously listed groups.
3. Functions as a **methodical centre and service provider at the regional, national and international level.**

1.2. Position of the Teiresias Centre

Masaryk University

- Founded: 1919
- Staff: 6300
- Faculties: 10
- Students: 30000

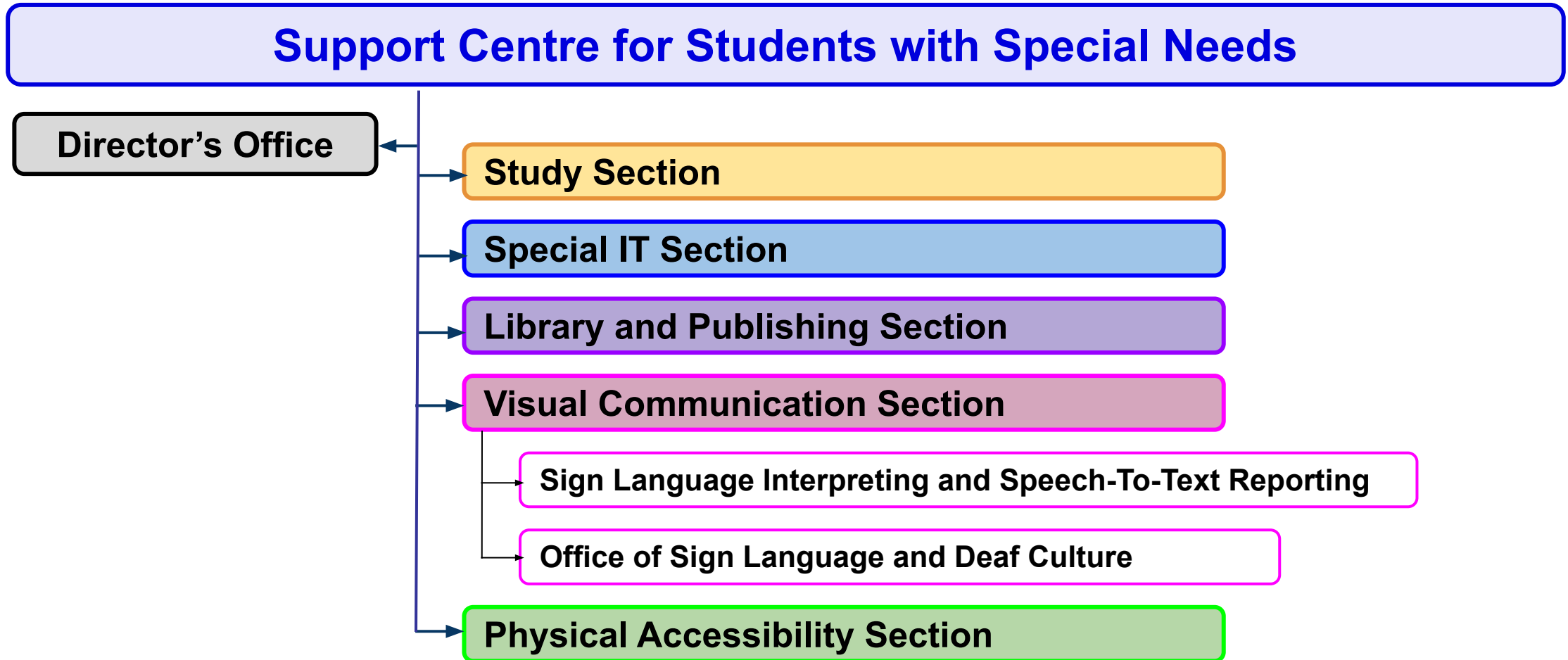


Centre Teiresias

- Founded: 2000
- Staff: 44 int., 100 ext.
- Sections: 5
- Students: 2500 since 2000

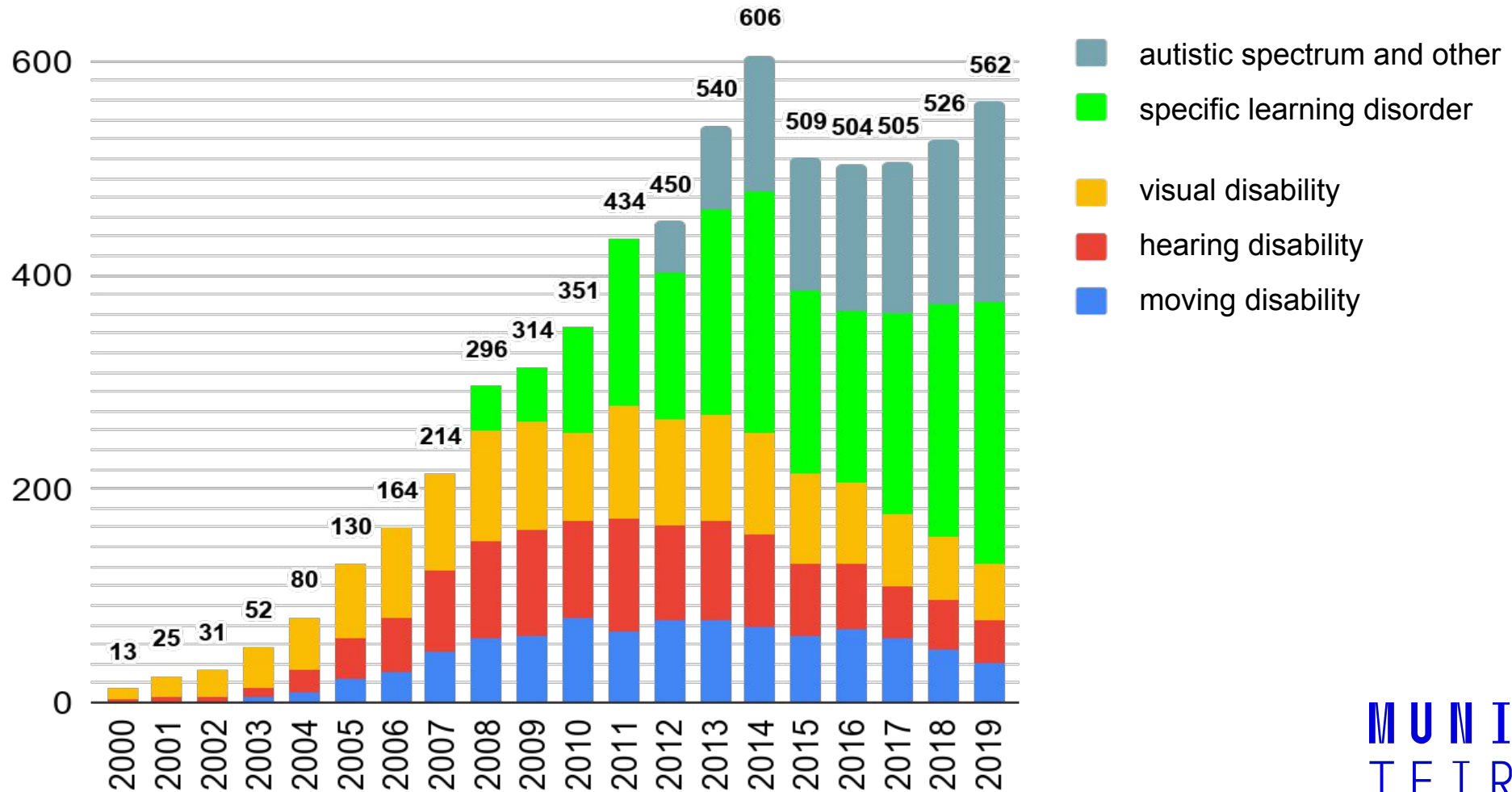


1.3 Organisation chart

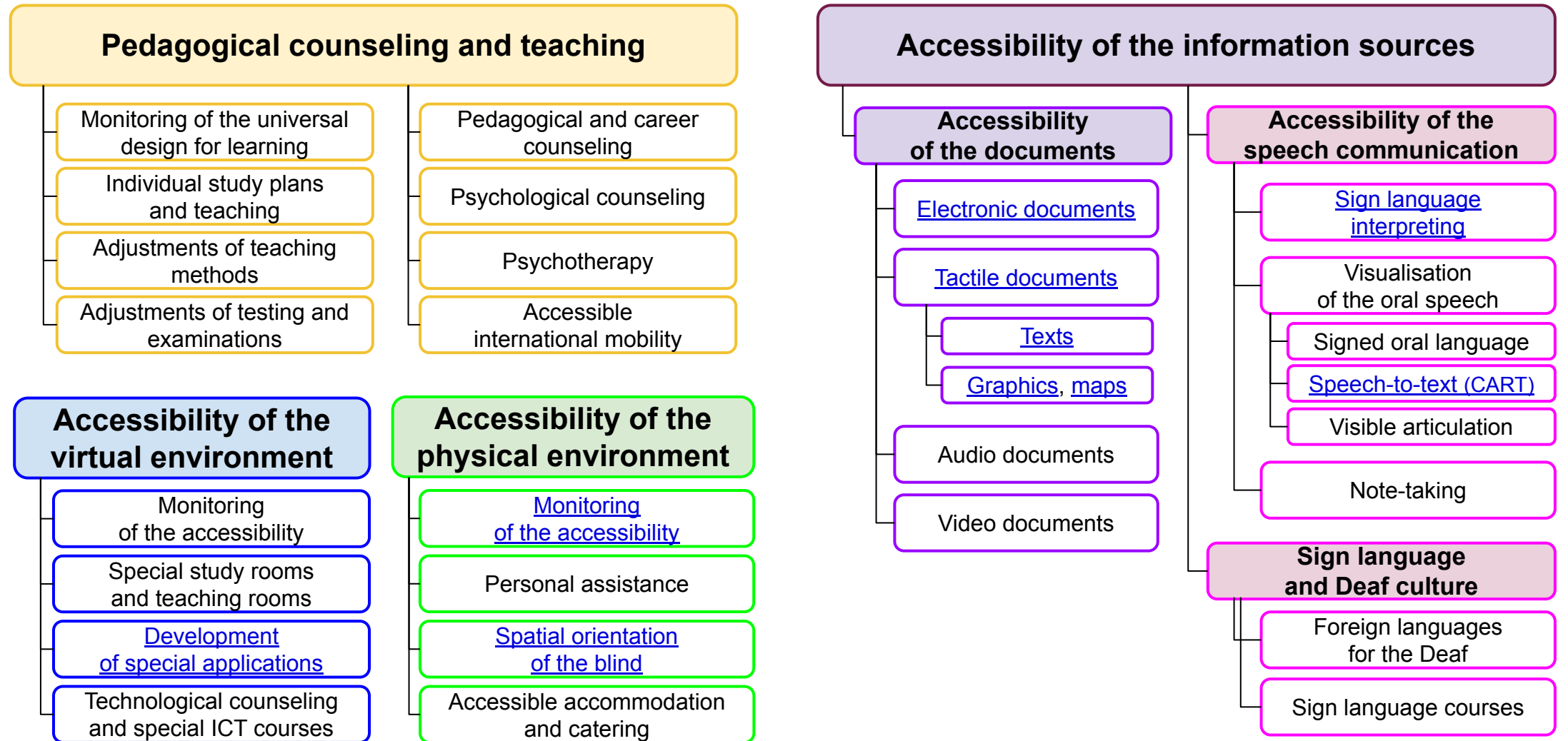


1.4. Some Statistics

1.4.1. Students asking for individual adjustment

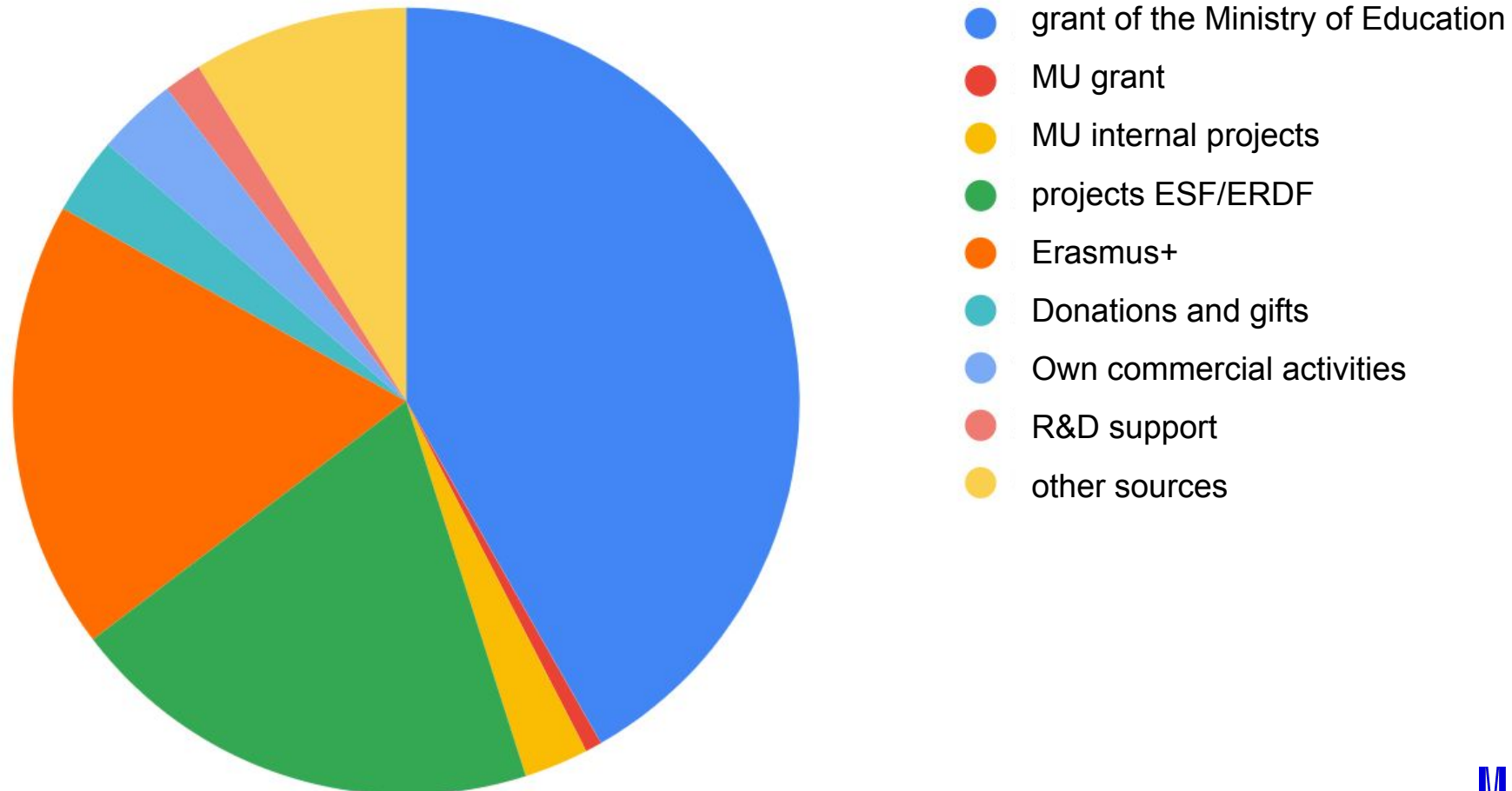


1.5. Key activities of the Teiresias Centre

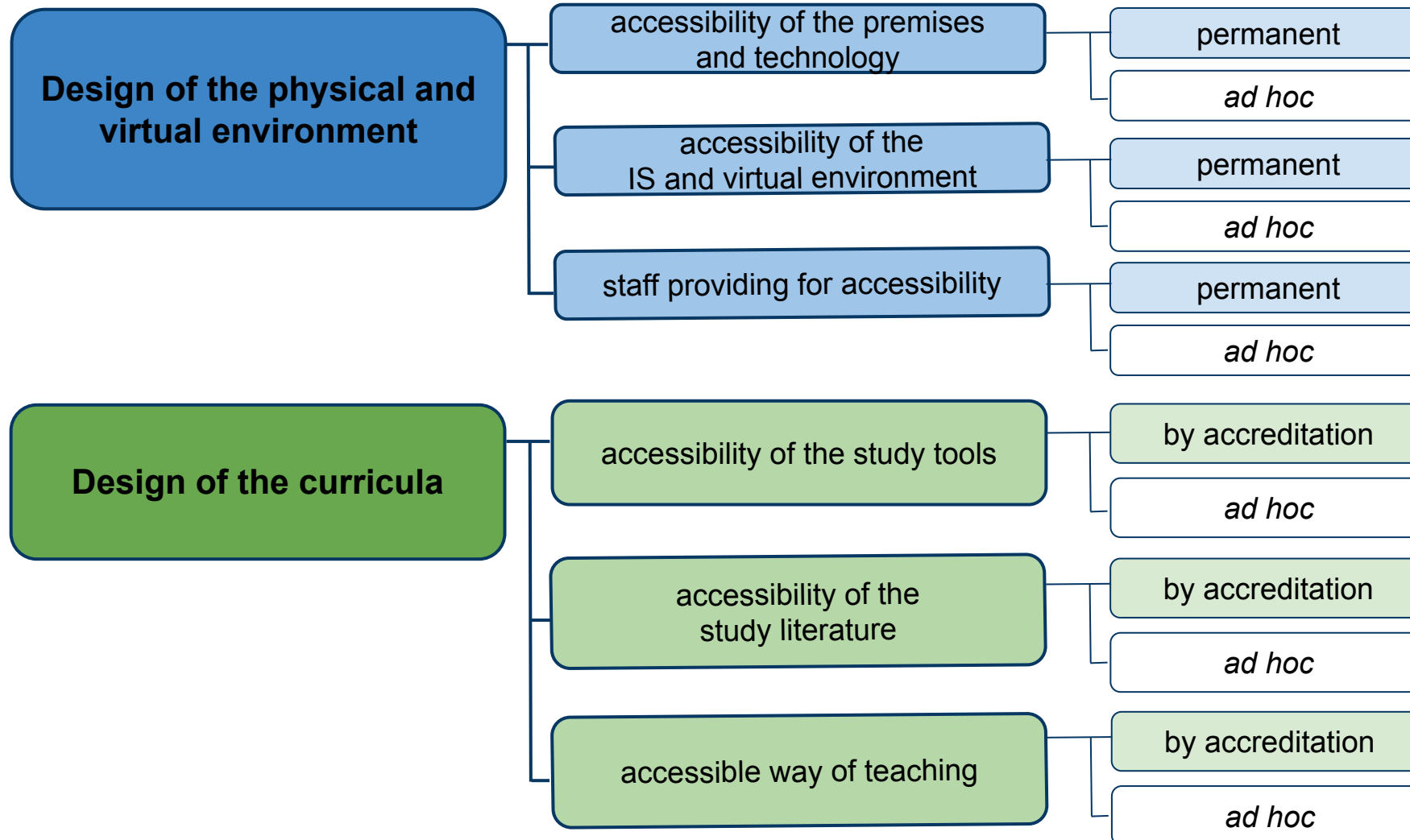


1.6 Annual Budget

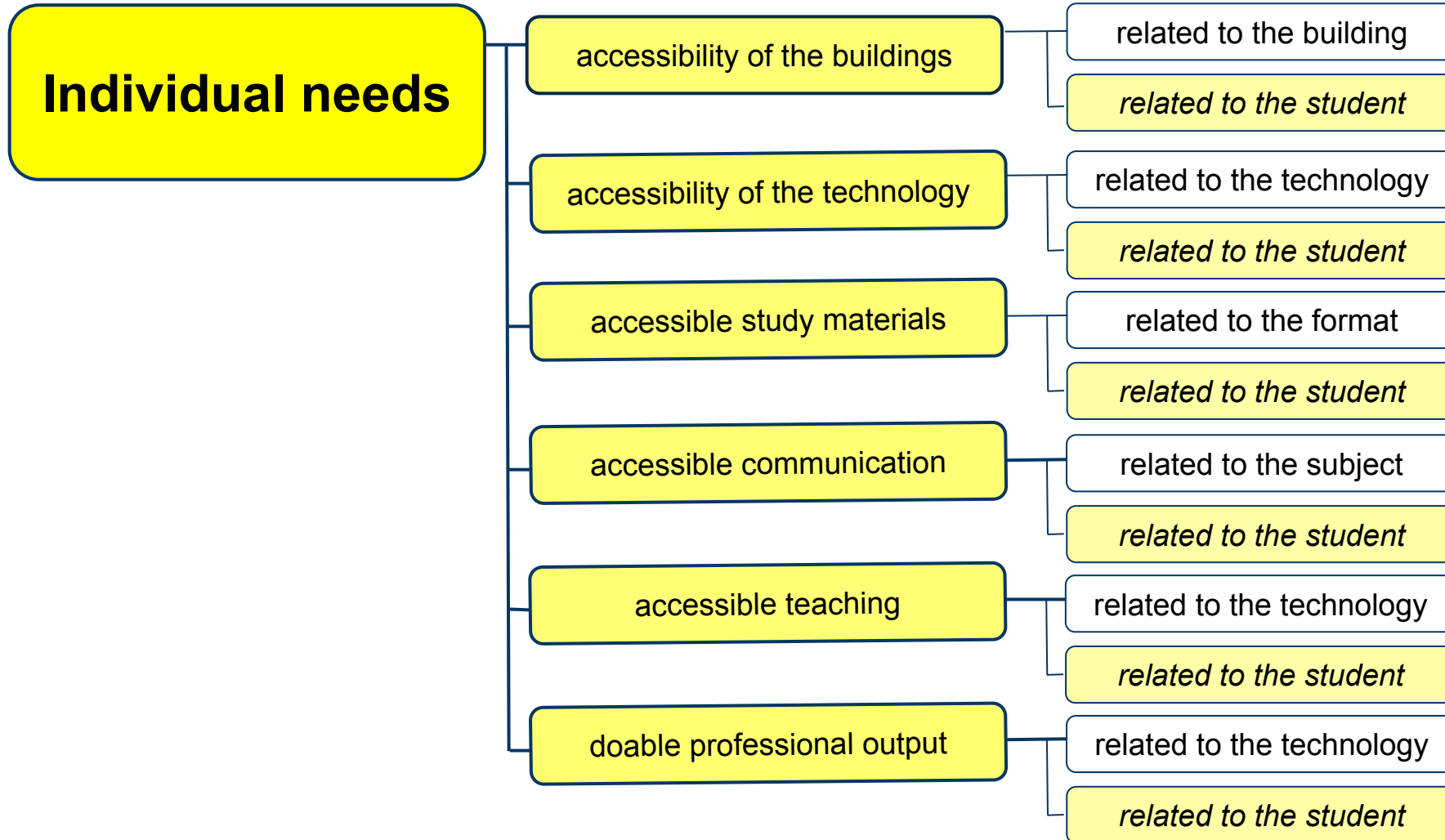
2020: 1 508 444 €



2.1. Universal design for learning



2.2. Individual adjustments



3.1 More about the Universal Learning Design

- targets the use of products, services and systems by as many people as possible without the need for adaptation;
- considers broad variety of users – diversity of humans, specifically e.g.:
 - people with disabilities – sensorial, motoric, on communication, etc.
 - neuro-cognitive disorders
 - ageing
 - people from different language and cultural contexts
 - users of various technological platforms
 - ...

3.2. Applying Universal Design in practice

Examples of Teiresias' activities on (co-)organizing

- presentations,
- conferences,
- lectures,
- workshops, etc.

in terms of *designing* the events *for all*.

3.3. Main targets group of participants

- deaf/Deaf, hard of hearing people
- blind, people with low vision
- people whose native language differs from the main one



- accessibility of (verbal) communication
- accessibility of (visual) documents

4.1. Accessibility of communication

- speech-to-text reporting (captioning)
 - now available at www.text-on-tap.live/index.html#e=rurd-captions
 - technologies used: [Polygraf](#), [Text on Top/Tap](#)
- sign language interpreting
- personal perception of amplified audio via headphones or hearing aid (induction loop)

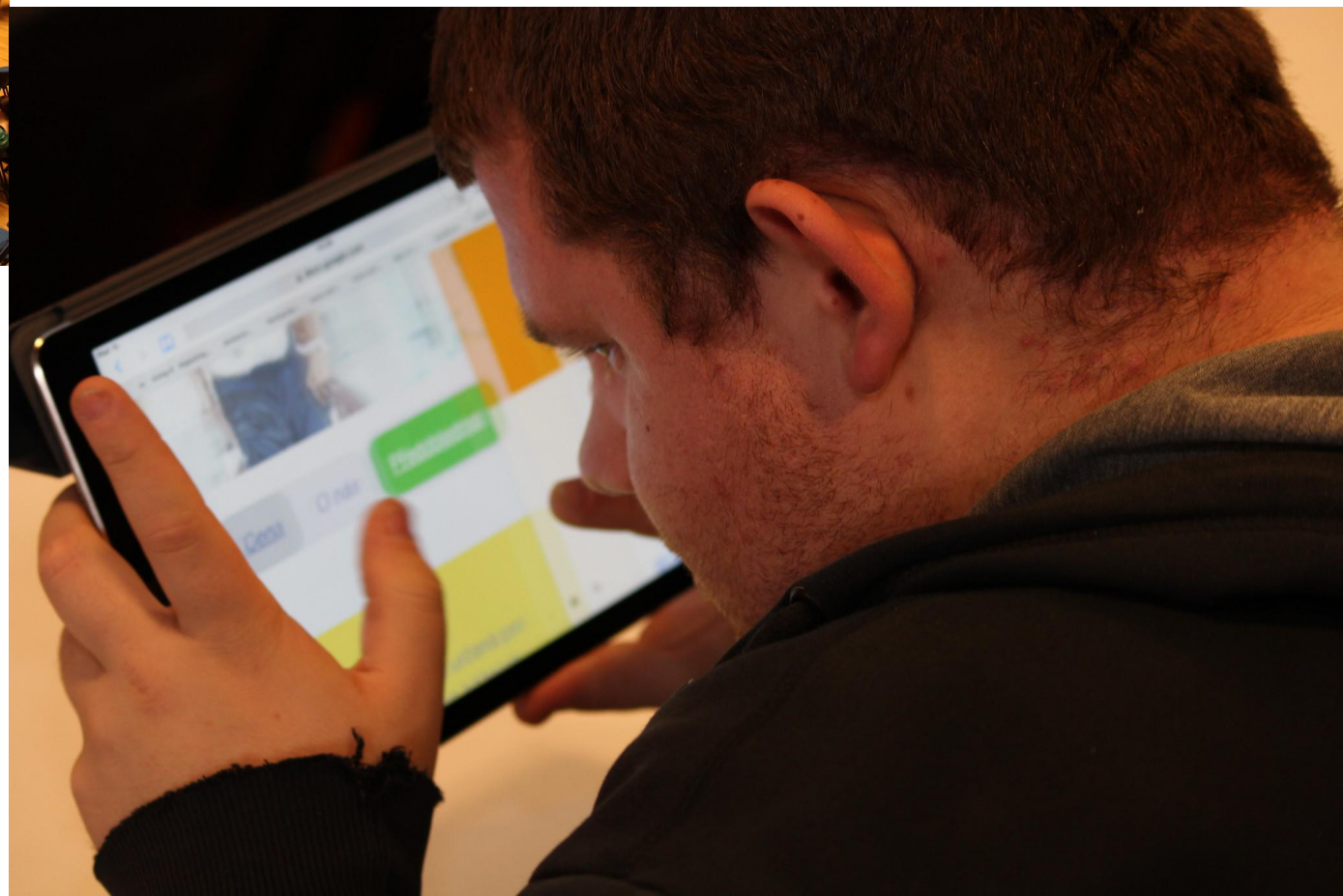




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4.2. Accessibility of documents (presentations)

- presentation slides accessible on an individual mobile device
 - for users with **low vision**
 - to be enlarged, color-adjusted etc.
 - technology used: [Polygraf](#)
- digital presentation documents provided to participants in advance
 - for **blind** users
 - to be accessed by their own assistive technology on their devices



4.3. Accessibility of video lectures I



The slide is divided into three vertical sections. On the left, a man in a dark jacket stands at a podium with a microphone. The podium has a sign that reads "19. Accessibilidade 2020". In the center, a white box contains the text "RoboBraille, SensusAccess" followed by a bulleted list of services. On the right, a woman in a dark top is shown from the chest up, performing sign language.

RoboBraille, SensusAccess

- Self-service alternate media and accessibility solution
- RoboBraille
 - Produces MP3 audio files
 - Produces structured audio books
 - Produces e-books
 - Produces digital Braille books
 - Converts inaccessible and tricky docs into more accessible formats
- Supports multitude of languages

4.3. Accessibility of video lectures II



Mojmír Švábenský



Alexander Alekhine

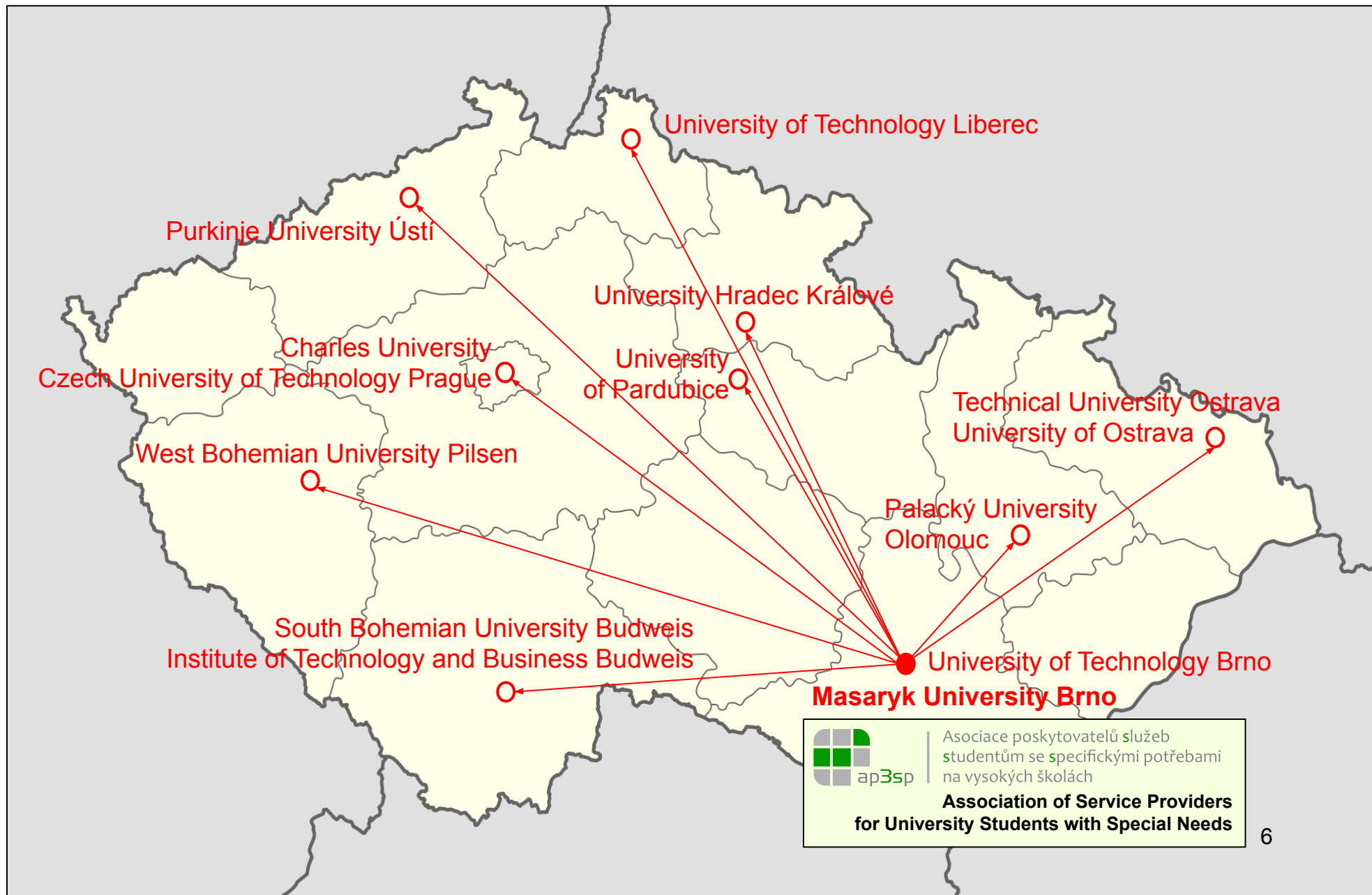


5. Social responsibility of Masaryk University in the field of universal design and accessibility

1. **Advisory boards and services** (national and world-wide)
2. **Public services** (national and world-wide)
3. **Commercial activities** (B2C, B2B; national and world-wide)
4. **Public events** (organisers and co-organisers; national and world-wide)

5.1. Advisory Boards and Services

- advisory services and methodological support for ministry of education, schools, employers of disabled employees, assistive technologies users...
- advisory board for barrier-free Brno (*City of Brno*)
- governmental board for persons with disabilities (*Government of the Czech Republic*)
- expert panels and juries
- *Association of Service Providers for University Students with Special Needs* founded by Masaryk University



5.2. Public Services

- accessible textbooks for schools (covering various disciplines (languages, history, [architecture](#), [geography](#), biology, mathematics, chemistry):
 - new production on demand:
 - digital books in accessible format
 - [tactile books](#) including tactile graphics ([2D](#) and [3D](#))
 - library services:
 - [Daleth](#) – national library gateway for visually impaired
- tactile maps on demand ([braille paper](#), [microcapsule paper](#) or [plastic](#)):
[hapticke.mapy.cz](#) ([bfmaps.org](#))
- [Pelion](#) – educational gateway on assistive technologies
- [Dictio](#) – sign language dictionary online

5.3. Commercial Services (B2B, B2C)

- accessibility assessment (web pages, electronic apps...)
- education, testing and instruction (DysTest, web accessibility, preparation of digital documents for blind users)
- sign language interpreting and translations, STTR/captioning
- development of assistive technology (BUF, Polygraf)
- tactile materials:
 - [orientation signage](#) (incl. labels for [elevator buttons](#))
 - [labels for exhibits](#) (of [plastic](#) or other [durable material](#))
 - orientation systems, haptic graphics, embossed prints, digital books in accessible format
- typical customers: museums, libraries, zoo, municipal authorities, public transport companies

5.4. Public events

- [ICC](#) (International Camp on Communication & Computers for Blind and Visually Impaired Youngsters, since 2011)
- [ICCHP](#) (International Conference on Computers Helping People with Special Needs, since 2012)
- [INSPO](#) (national conference on technologies for people with special needs, since 2011)
- [Agora](#) (conference on ICT for people with visual impairment, since 2015)
- [Summer schools for teachers](#) of visually and hearing impaired students
- [University of Third Age](#) at Masaryk University
- [Jiří Mahen Library](#) in Brno, series of lectures “Library for barrier-free Brno”
- [Barrier-free Cinema Initiative](#) (accessibility for visually impaired)
- other conferences and workshops



Thank you for your attention

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