



Educational Services for K12

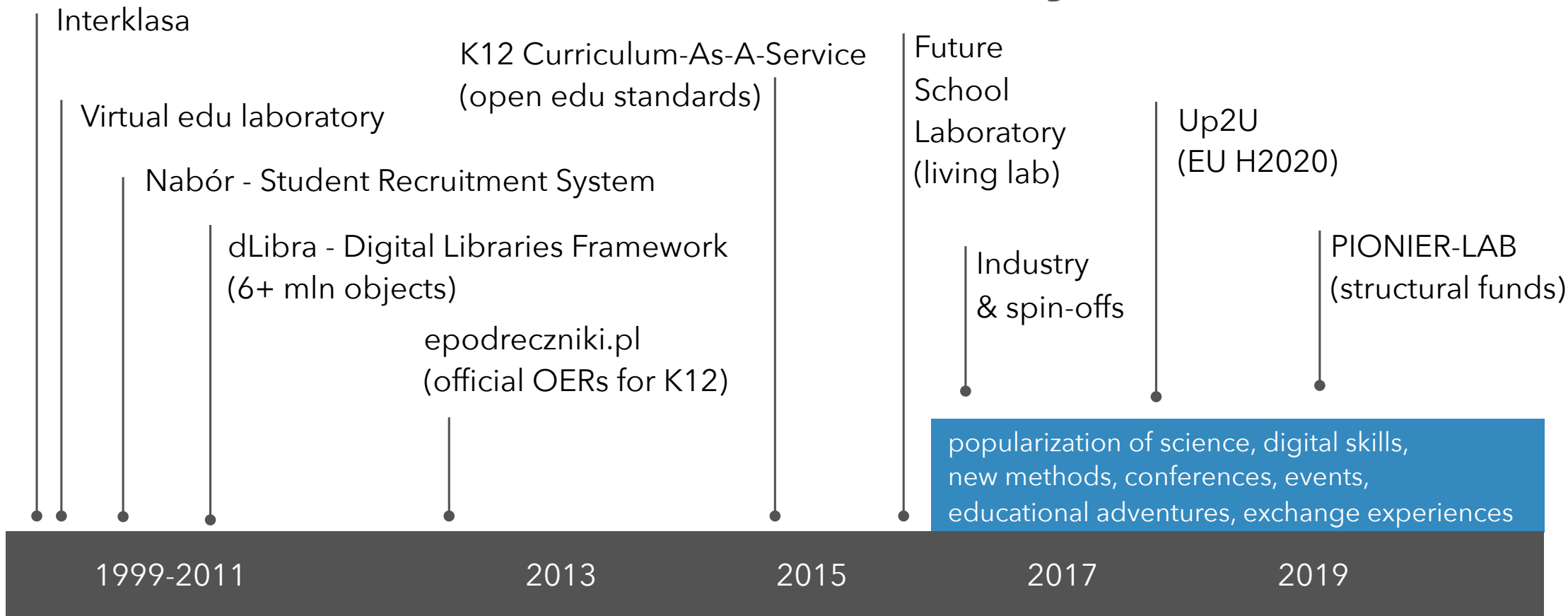
Best practices

Krzysztof Kurowski
PSNC Technical Director
krzysztof.kurowski@man.poznan.pl

Motivations

- Using the potential of existing e-infrastructure and research resource repositories to create added value services for K12
- Stimulating cooperation between K12 and research communities, including local universities
- Continuous improvement of the use of ICT in education at the national scale, including main universities at the national level
- Bridging gaps in the key competences and the use of ICT as defined by (UNESCO, OECD, EU 2018/C 189/01, etc.)

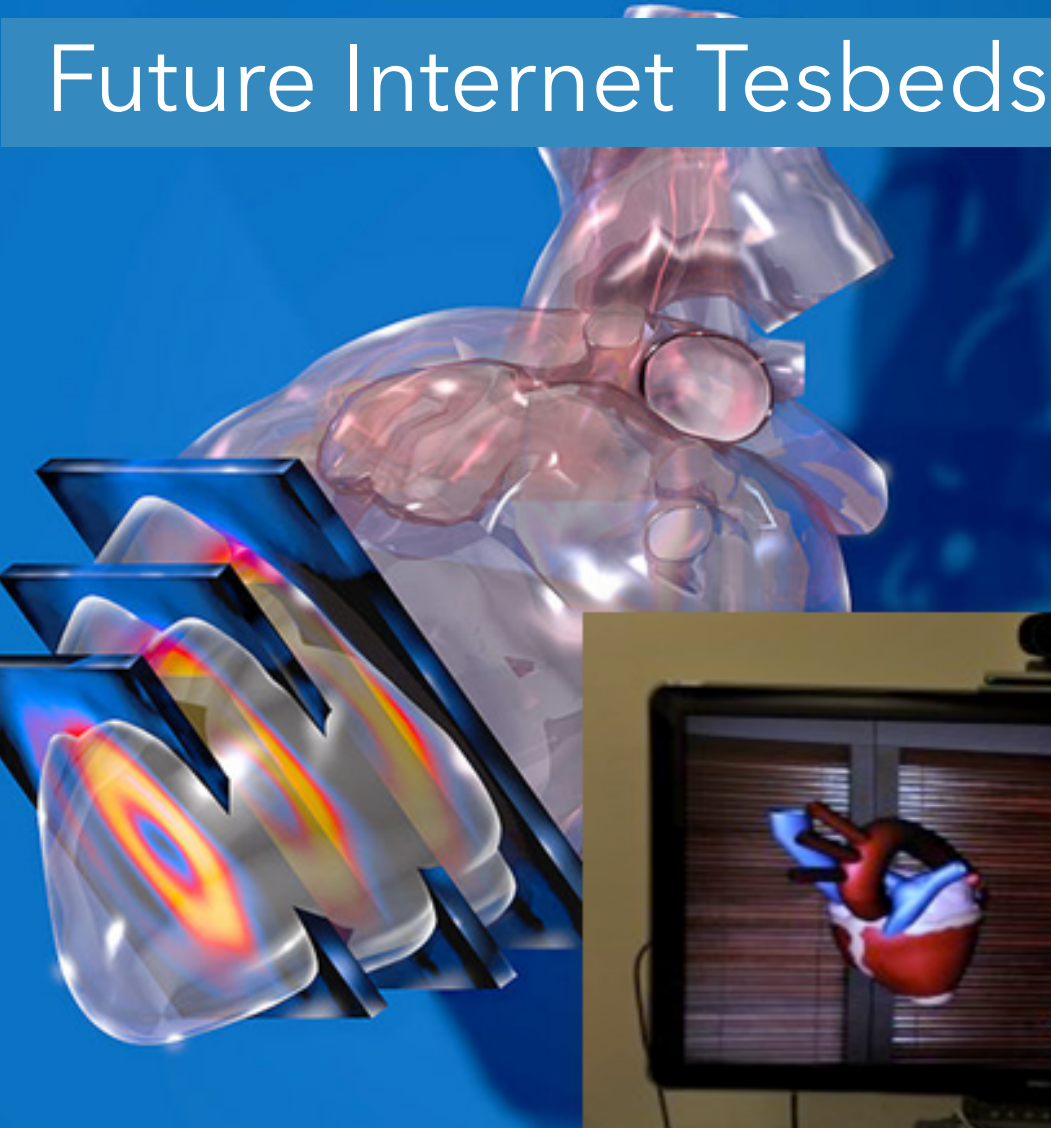
Timeline of edu services by PSNC



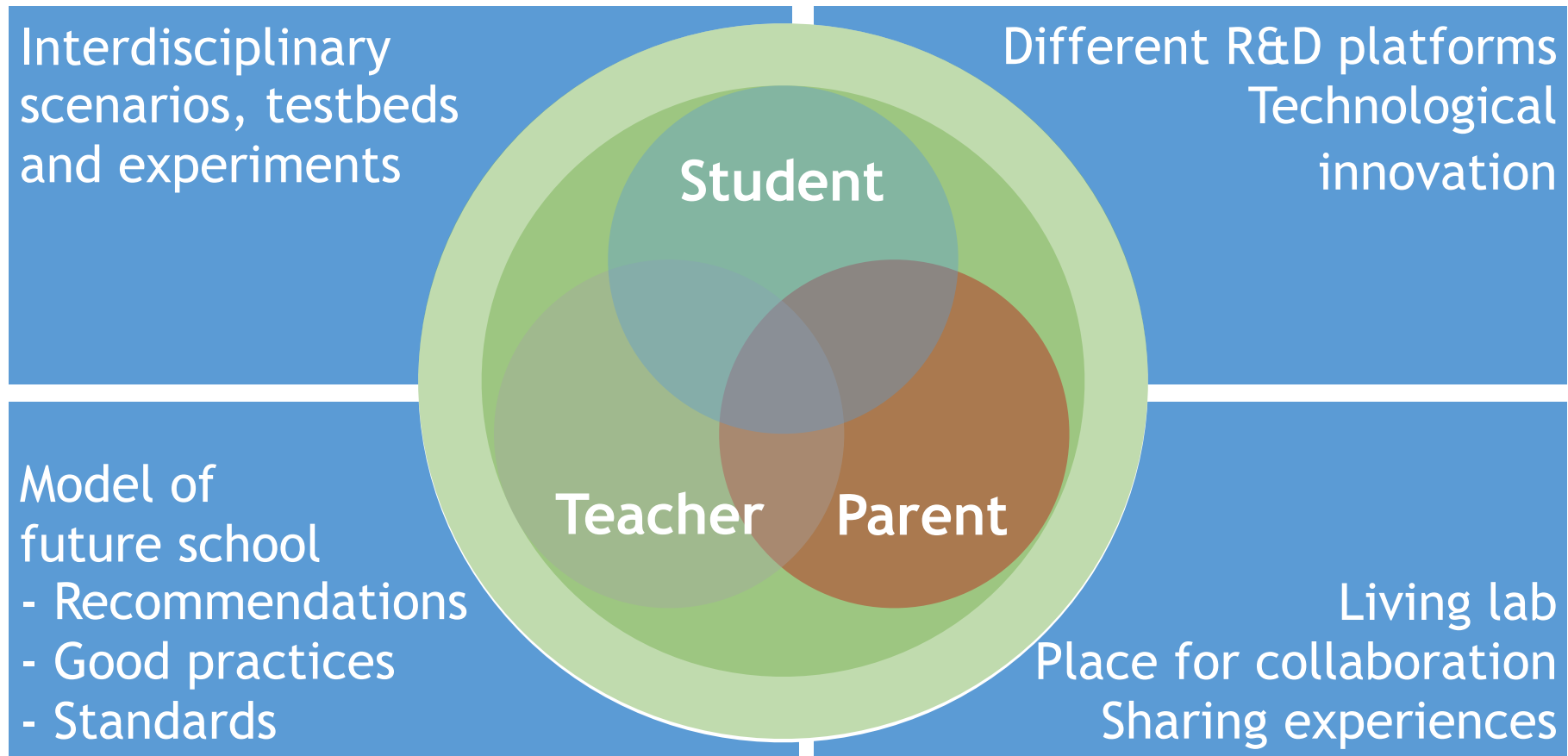
podreczniki.pl - OER for K12

- Modern educational OER & MOOC platform and repository to create and share e-books and educational multimedia content for K12
- It has been designed, developed and operated by PSNC till 2017
- Tried by most of K12 schools in Poland
- In peaks, several millions of page views per day (!)
- WCAG 2.0 compliant + different formats supported (including PDF ;-)
- Underlying repository was integrated with GÉANT eduOER

Future Internet Tesbeds for edu



Future School Laboratory concept



Researchers & Innovation for K12



The Future School Laboratory

New HMIs



New HMIs



Cyber-physical systems





Real Experiments



Creating innovation



Creating innovation



Cooperation





Games and Gamification

Robotics



Robotics





Virtual Reality



Virtual Reality





Augmented Reality

Digital skills



Exchange of experiences





Exchange of experiences



Up2U pilot

- Innovation Action 2017-2020, led by GÉANT
- Bridging the gap between secondary schools and higher education
- Establishing Next Generation Digital Learning Environment
- Up2U Pilot in Poland:
 - Based on collaboration with regions and local government bodies
 - Teacher training, face-to-face meetings, and online support
 - Continuously collecting feedback from teachers
 - Changes are needed to better reflect users' needs

Future

- Continue the pilot started for Up2U in the Future School Laboratory (living lab)
- Continuously adopt the set of tools to teachers' needs
- Ensure sustained access and support to all online tools
- Introduce new tools recently identified (chat, project mgmt, whiteboard, drawing, web rtc, ...)
- Collaborate more with local edu institutions (both academia and industry) to create much bigger impact within the country
- Look for funding opportunities for further R&D and sustainability



Poznań Supercomputing and Networking Center

affiliated to the Institute of Bioorganic Chemistry of the Polish Academy of Sciences,

ul. Jana Pawła II 10, 61-139 Poznań, POLAND,
Office: phone center: (+48 61) 858-20-01, fax: (+48 61) 850-25-01,
e-mail: office@man.poznan.pl, <http://www.psnk.pl>