

## The European dimension

POLFEL is proposed as a new node of the IRUVX FEL Network, which is an integrated infrastructure consisting of 5 nodes in Germany (FLASH and BESSY), Italy (FERMI), Sweden (MAX IV) and UK (4GLS).



POLFEL is the only large research infrastructure from the ESFRI Roadmap currently planned to be built in Poland. Therefore, it is a crucial element of integrating Poland into the European Research Area.

## Synergy of POLFEL @ IPJ with FLASH and XFEL at DESY:

IPJ has a longstanding tradition in designing and building particle accelerators for science, industry and medicine. It contributes to projects at CERN (CLIC) and DESY (TTF, FLASH, XFEL). The Institute was chosen to coordinate the XFEL-Poland consortium, joining research institutes and industry interested in building and using the XFEL facility at DESY.

Collaboration with DESY and using technology developed for XFEL could be beneficial for both DESY and IPJ.

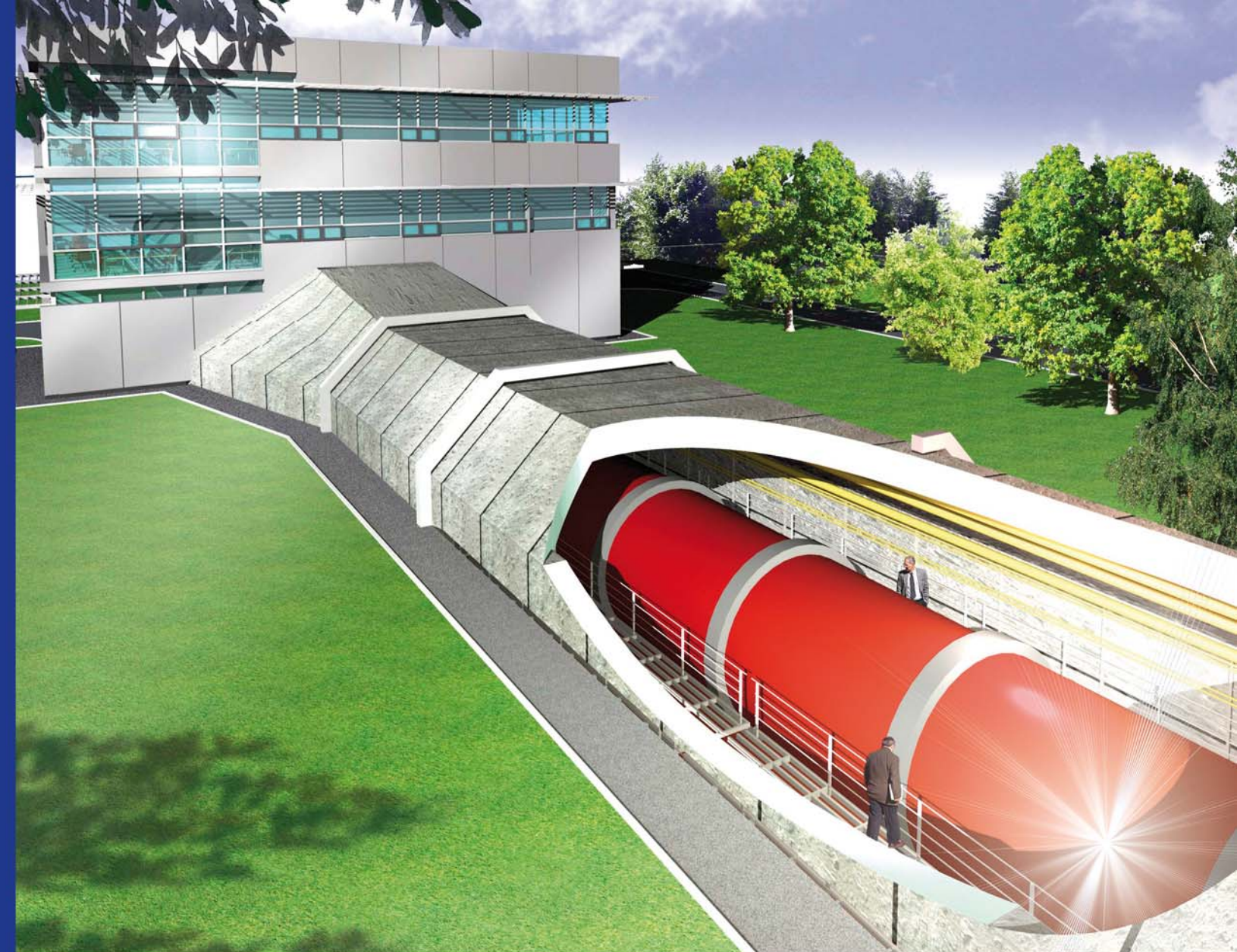


## Benefits for IPJ:

- The risk of project failure due to technological problems is minimized.
- The cost and time for design, R&D and prototyping is significantly reduced.
- Components can be produced as an extension of XFEL production for the price of "mass production"
- The project can profit from the know-how of Polish experts gained during XFEL design and construction.

## Benefits for FLASH / XFEL / DESY:

- IPJ could increase its manpower and in-kind contribution to XFEL.
- POLFEL may serve as a cost effective training center for FLASH and XFEL technical staff and users.
- FLASH experiments could be prepared and tested effectively at POLFEL.
- New ideas and pilot programs to improve XFEL could be developed and tested at POLFEL.



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