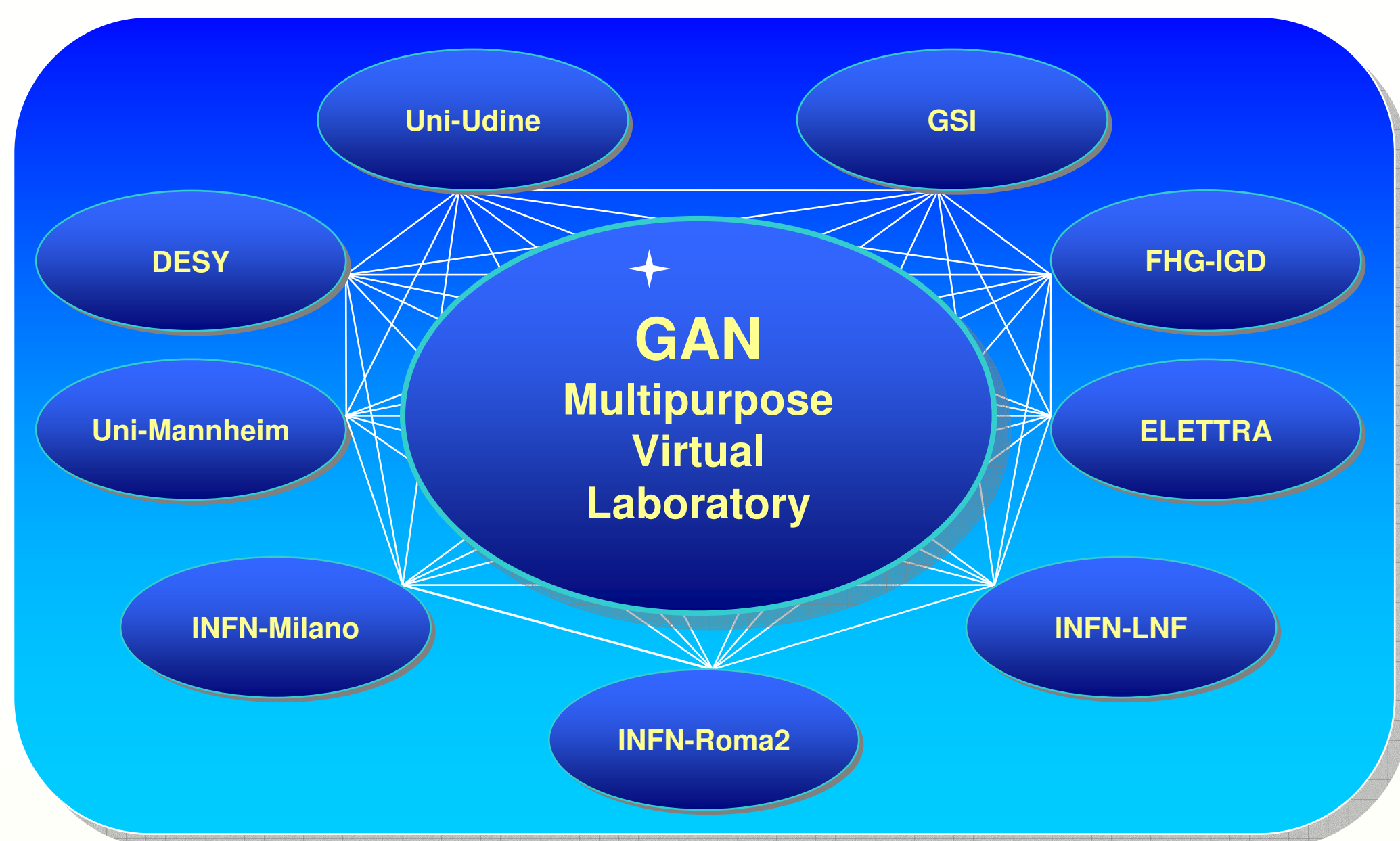


F.Billè, F.Bonaccorso, R.Borghes, A.Busato, V.Chenda, A.Curri, D.Favretto, M.Prica, R.Pugliese, M.Turcinovich
Sincrotrone Trieste SCpA - ELETTRA
contacts: pugliese@elettra.trieste.it

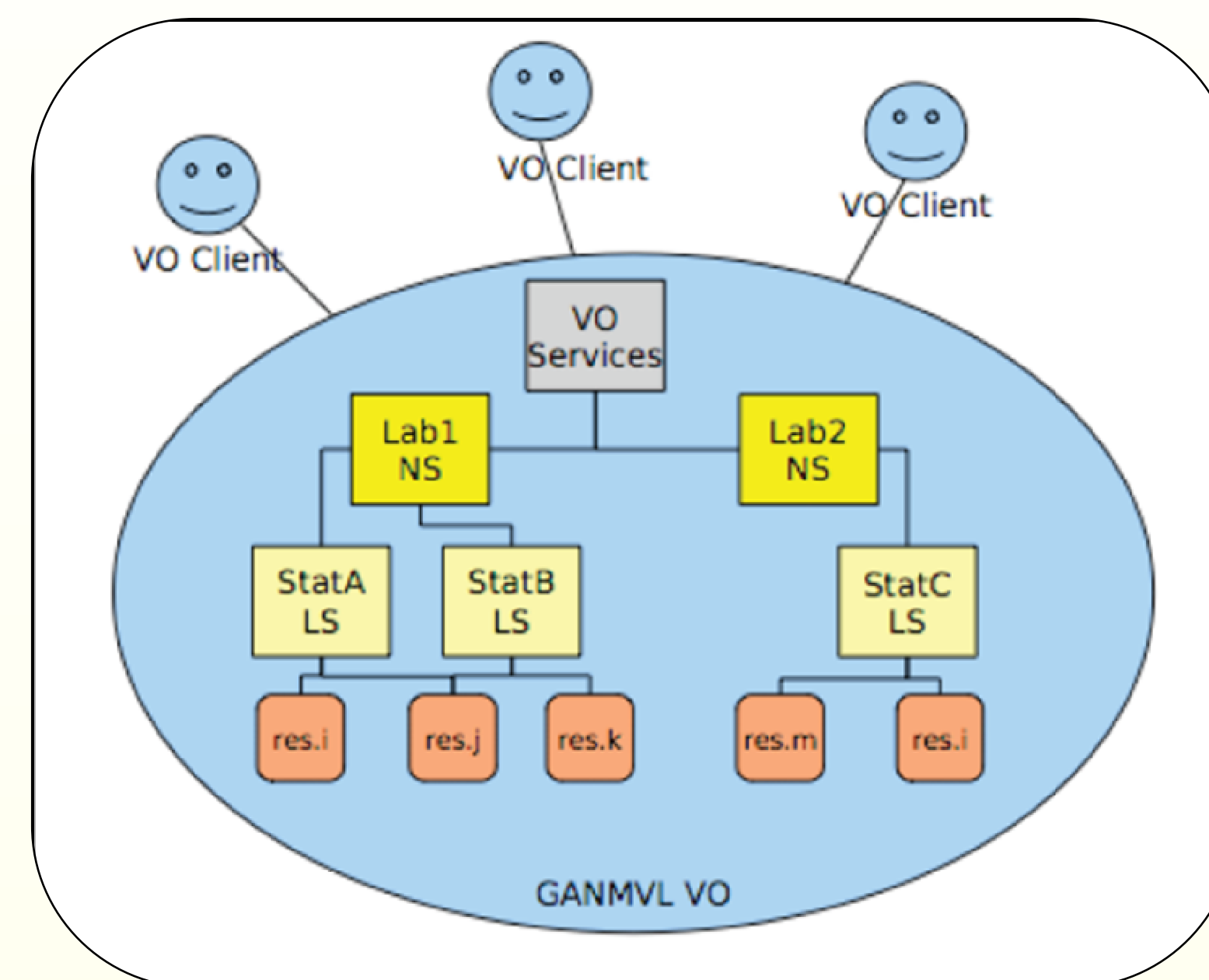
The EUROTeV Project



- ⊙ The most likely scenario of a linear collider is that it will be built by a collaboration of existing laboratories, which will remain involved during the operation of the accelerator.
 - + Prototypes will be developed in one institution and tested with beam in another laboratory
 - + Equipment will be built and delivered by one partner and needs to be integrated into the accelerator complex by another partner
 - + Whole parts of the facility will be provided by a remote partner and need to be commissioned and possibly operated with the experts at their remote home institutions
 - + In situ trouble shooting and repairs needs to be performed with the support of off-site experts
- ⊙ Advanced means of communication will be necessary to support efficient collaboration.
- ⊙ The GANML project will design and build a novel collaboration tool and test it in existing accelerator collaborations.
- ⊙ The Multipurpose Virtual Laboratory is a tool to implement the Global Accelerator Network, a Virtual Organisation (VO) connecting international laboratories doing research in the field of accelerators
- ⊙ The GANML project will provide valuable experience of a new way in designing, building and operating large accelerator complexes, and will address the important psychological and sociological issues of the Global Accelerator Network.
- ⊙ Remote control of an accelerator facility has the potential of revolutionizing the mode of operation and the degree of exploitation of large experimental physics facilities.

- ⊙ The tool will be a mobile communication centre which provides immersive video and audio capture and reproduction of an accelerator control room, a laboratory workplace environment or an accelerator hardware installation.
- ⊙ The tool should be able to connect to standard measurement equipment (scopes, network analyzers etc.) and to elements of accelerator controls and make these connections available to a remote client.
- ⊙ The remote user should be enabled to participate in accelerator studies, assembly of accelerator components, trouble shooting of hardware or analysis of on-line data as if he or she would be present on site.

GAN Architecture



- ⊙ Web portal interface for all types of users (remote, laboratory admin, station admin) and all usage scenarios
- ⊙ Fine grain control on authorization
- ⊙ Resource or capabilities can be associated to different levels
- ⊙ Awareness feature: tunnel monitoring and control, resource enable / disable
- ⊙ Knowledge management tab with e-log, help, download area
- ⊙ GANML tab with an integrated resource and people browser
- ⊙ Different kind of capabilities: High resolution cameras, file manager, chat, audio and video conference (skype, VRVS), Web tools (LabVIEW, I/O instrument integration), VNC tools (Control Room Panels), Wizards
- ⊙ Open source, modular distribution, plug-in architecture