

Digitalization of Vidiškiai transformer substation (Lithuania)

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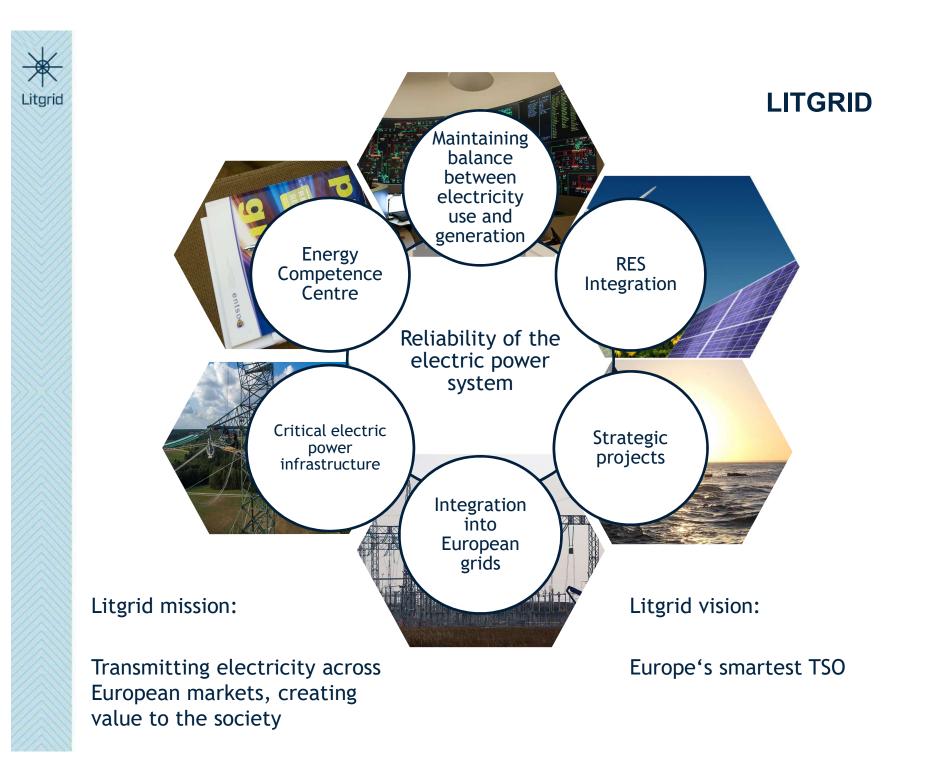


2017-12-08 Riga, Latvia



Agenda

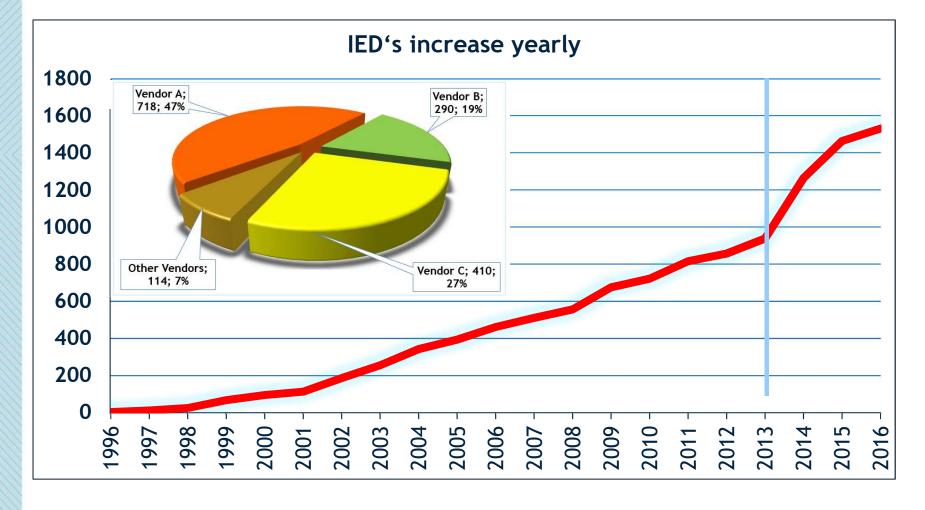
➤Litgrid in brief ➤Way to "digital" substation Project description Project implementation Project results \succ Lessons learned ➢ Future R&D





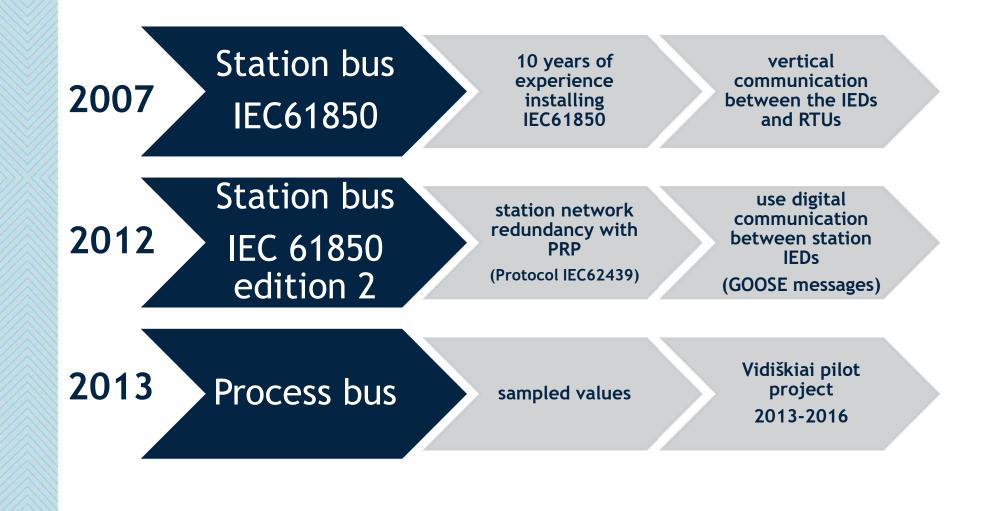
Way to "digital" substation

Every year Litgrid starts and completes reconstruction of 5 to 8 substations and the number of smart microprocessor devices (IED's) is growing rapidly - over 500 new IED's since 2013.





Way to "digital" substation





Vidiškiai station

- Commisioned in 1980;
- Without remote control possibility;
- "Low risk station" for testing new technology.







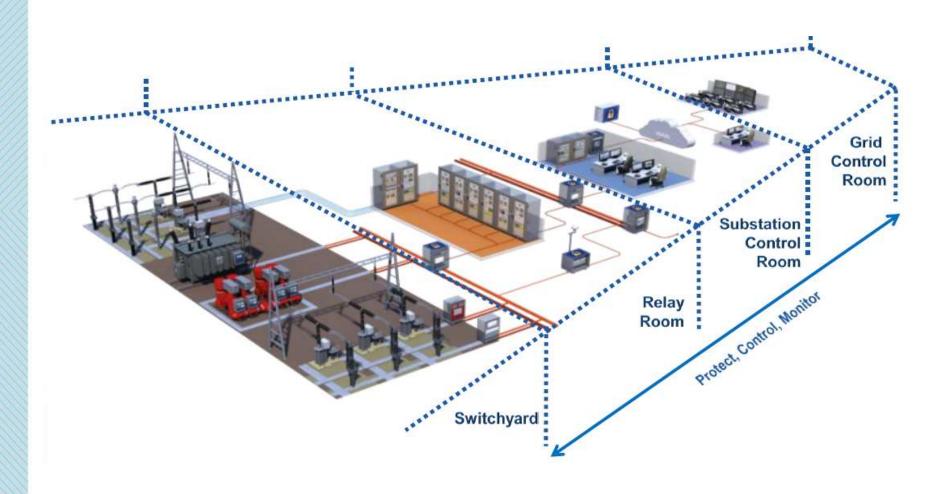
Vidiškiai station - Project partners

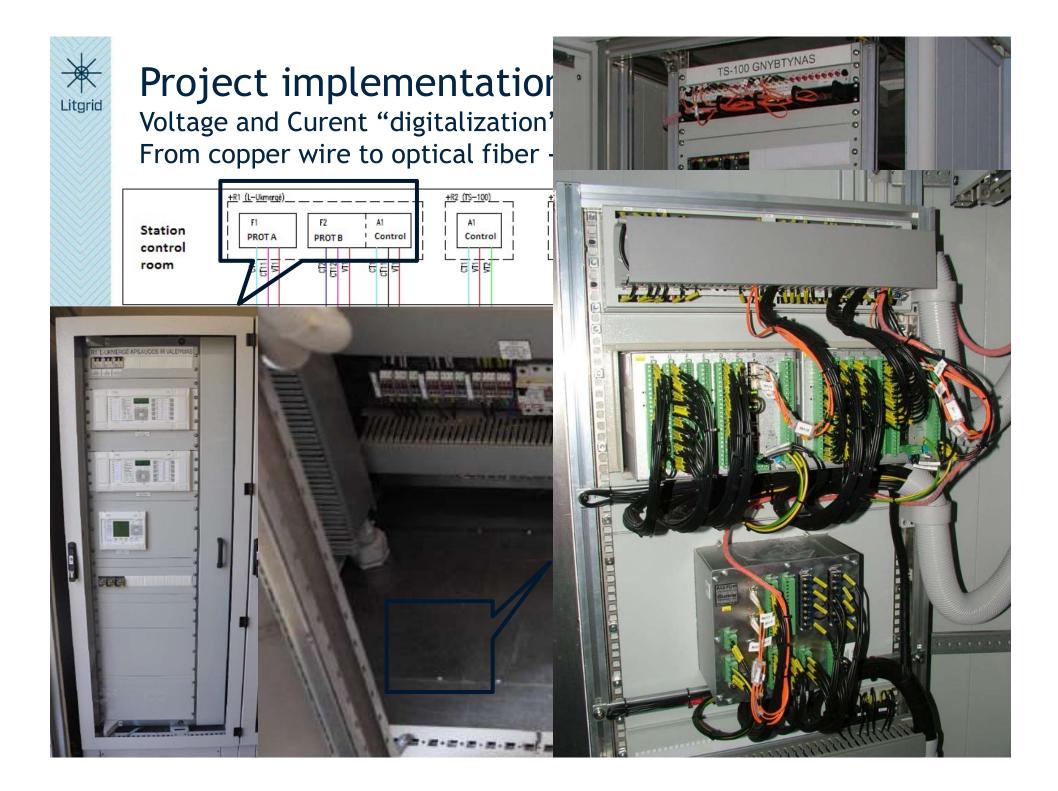


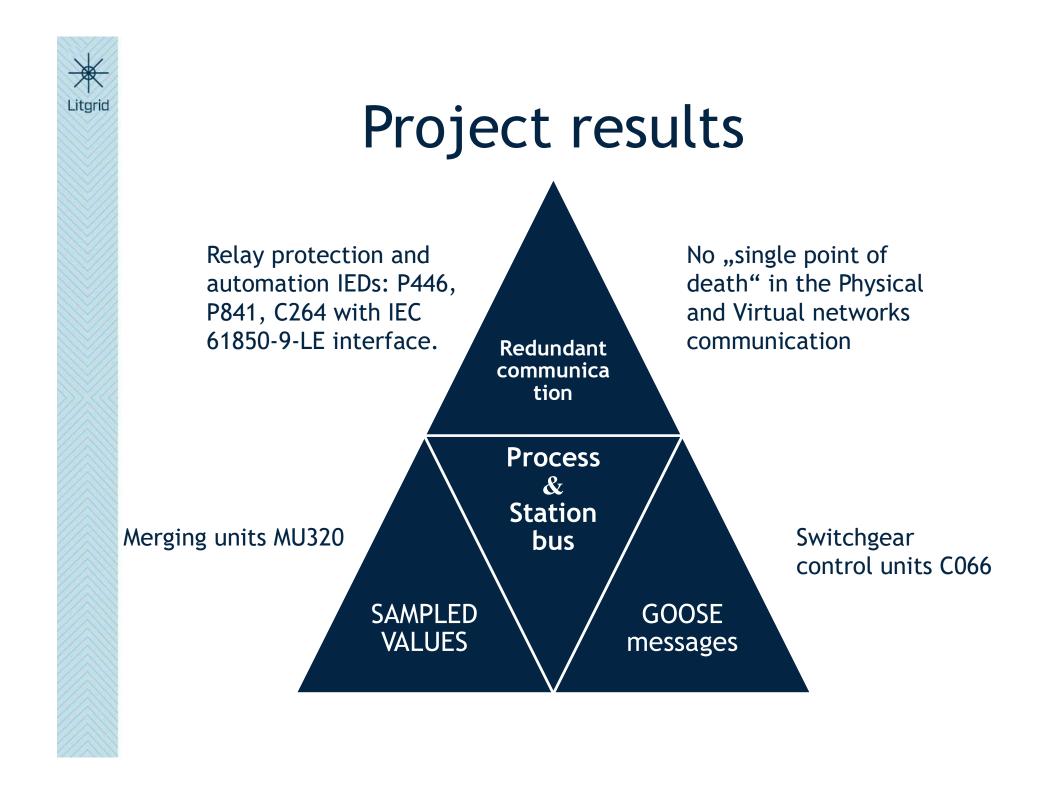
"Turn key" project



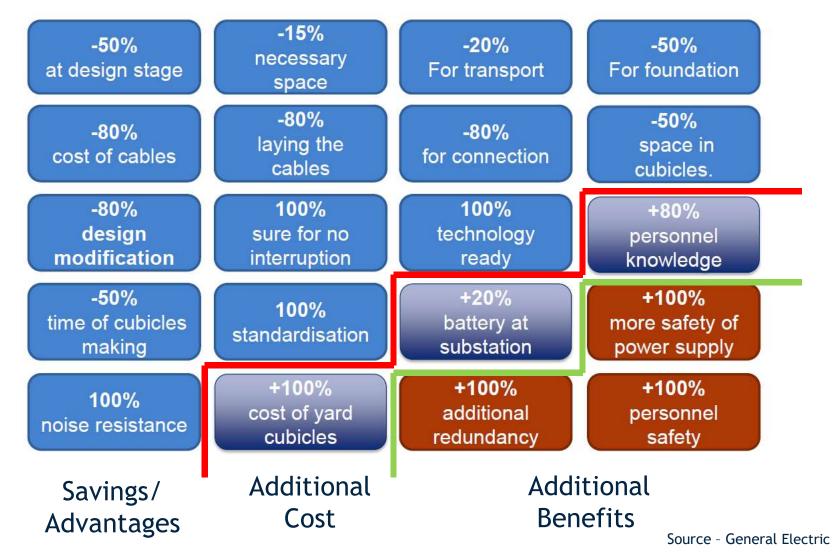
Project description (GE)







Main drivers of Digital SS technology (according to GE)

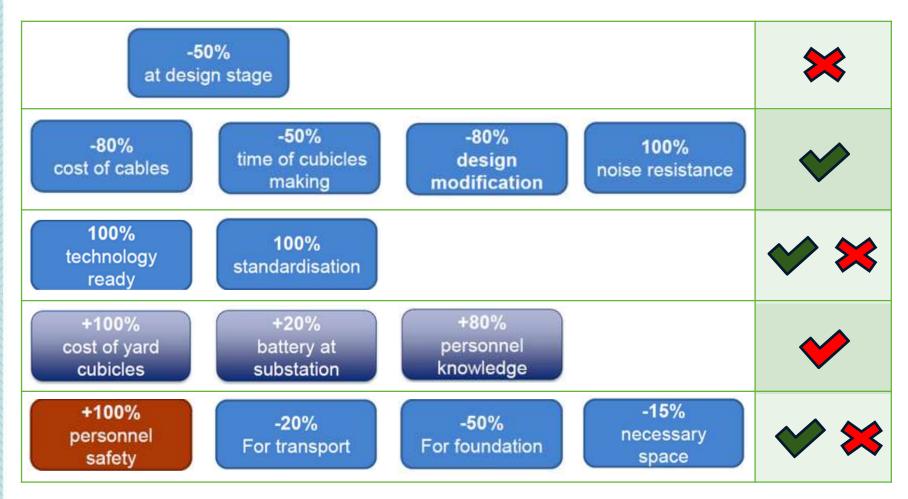


Litgrid

Main challenges and lessons learned

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Next steps and future R&D&I

"Digitalization" is not yet completed yet (Vidiškiai substation still missing some "digital" items)

> Optical current and voltage measurement sensors with standardized digital interfaces

Standardized merging and switchgear control units for process bus

Equipment software development and standardization

Litgrid believes in the future of IEC 61850 however equipment in which the standard is released is essential for making step forward.

Questions?

supprise