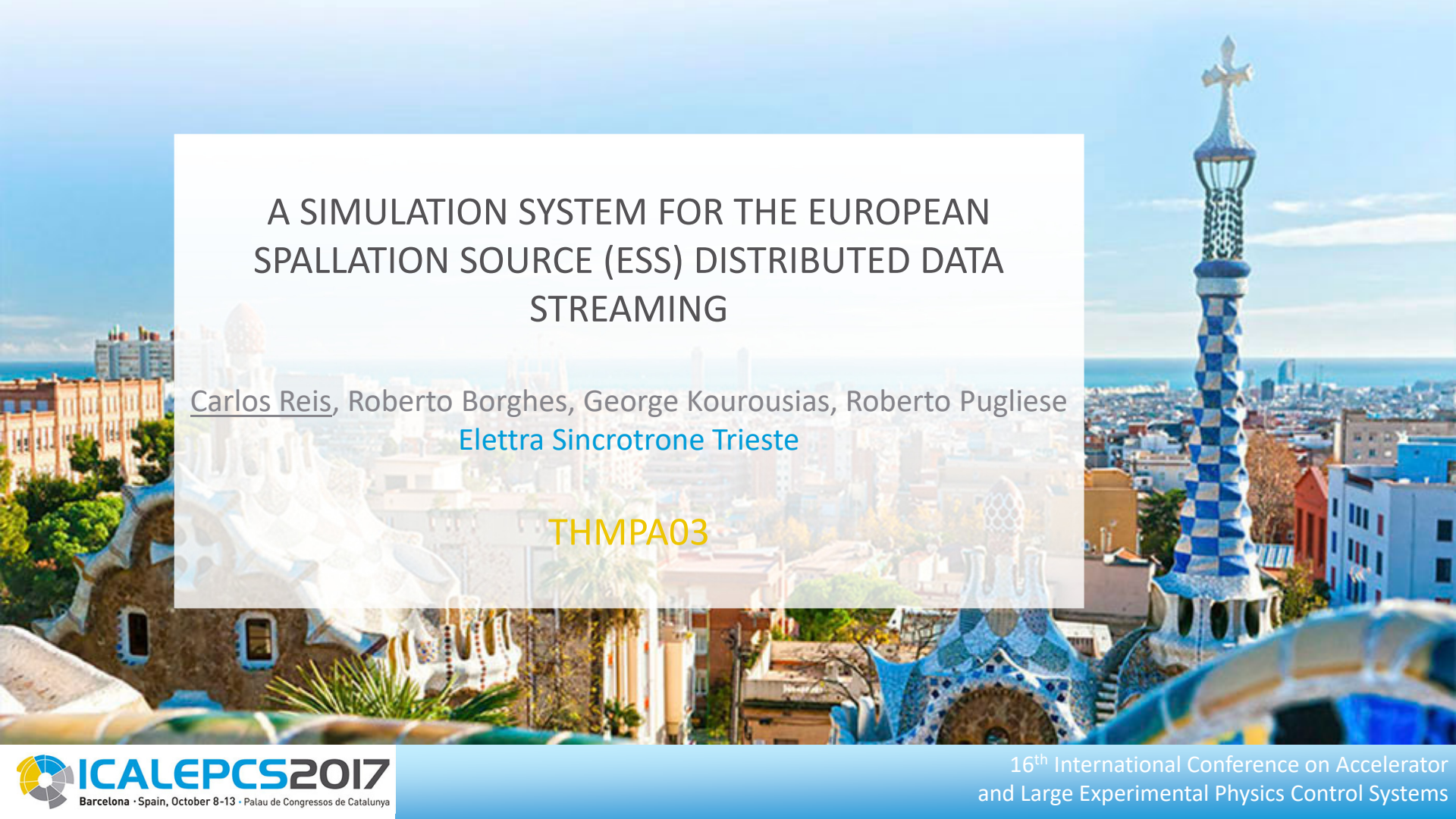




A SIMULATION SYSTEM FOR THE EUROPEAN SPALLATION SOURCE (ESS) DISTRIBUTED DATA STREAMING

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THMPA03

Project at a Glance

- European Spallation Source (ESS), neutron source facility, will produce immense amount of data
- BrightnESS WP5 are developing solutions to manage such data
- Our contribution is to provide simulation of data generation, based on DonkiOrchestra, a workflow manager for beamline end-station



brightness



Solution outline

*A specialized framework that offers advanced **WORKFLOW** control for beamline end-station software,
re-purposed to be used with **KAFKA-ESS** technologies aiming at providing rapid **SCRIPTING** of complex scenarios of **DATA STREAM** generation and processing for **SIMULATION** purposes.*

Conclusion

- Simplicity
 - Rapid scripting
 - Concurrency
 - Portable
 - Open sourcing
 - High degree of customization
 - What's next ...
- We invite you to pass by **THMPA03** to see our poster

Thank you for your attention