



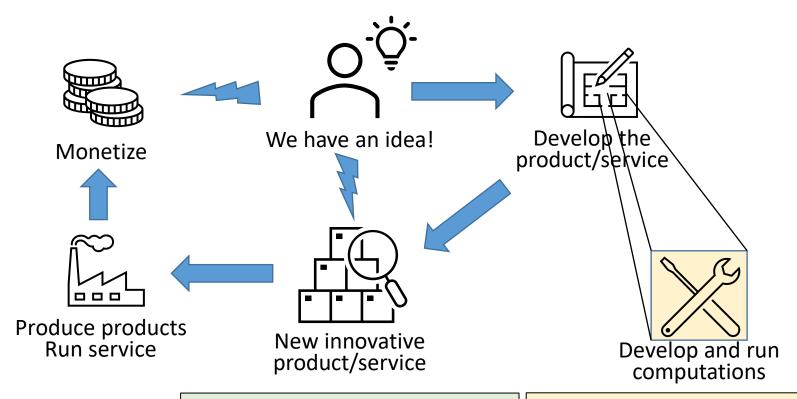
Warsaw University of Technology

BalticLSC Platform

Low-Code Large-Scale Computations

Michał Śmiałek, Warsaw University of Technology

Turning great ideas into ready solutions



P: New Catamaran Yacht

P: New Virus Vaccine

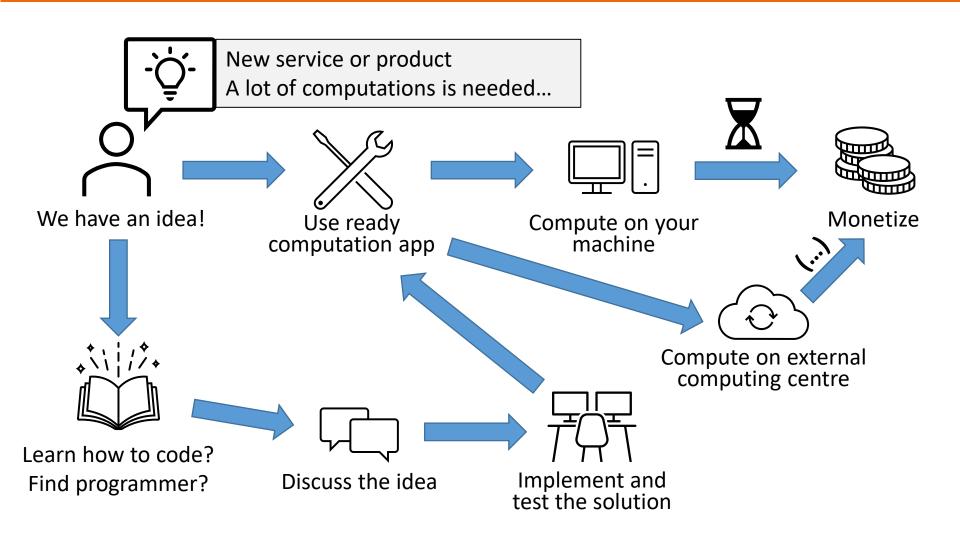
S: New Airport Security System

S: New Weather Forecasting Service

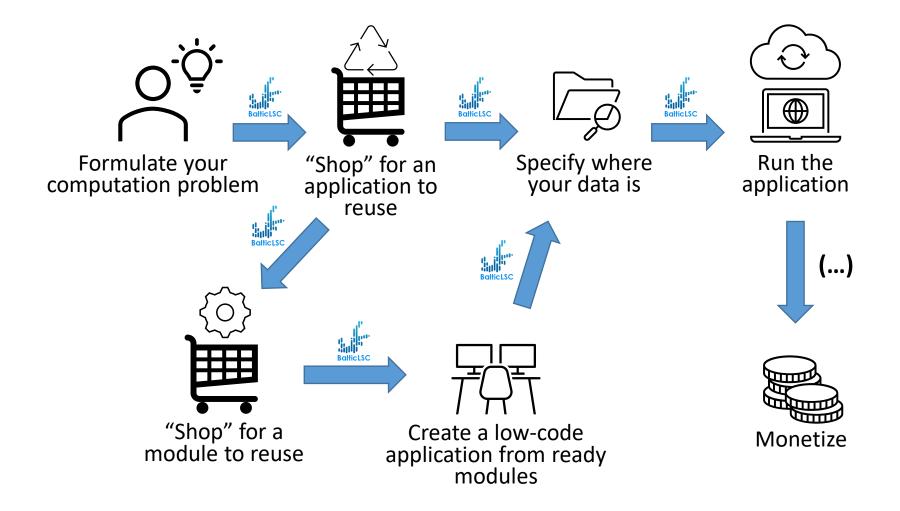
Calculate yacht's hull aerodynamics... Compute DNA sequences of a virus... Train a neural network (AI system)... Test weather forecast algorithms...



How to develop an innovation?



From idea to ready solution with BalticLSC



Components of the BalticLSC Platform







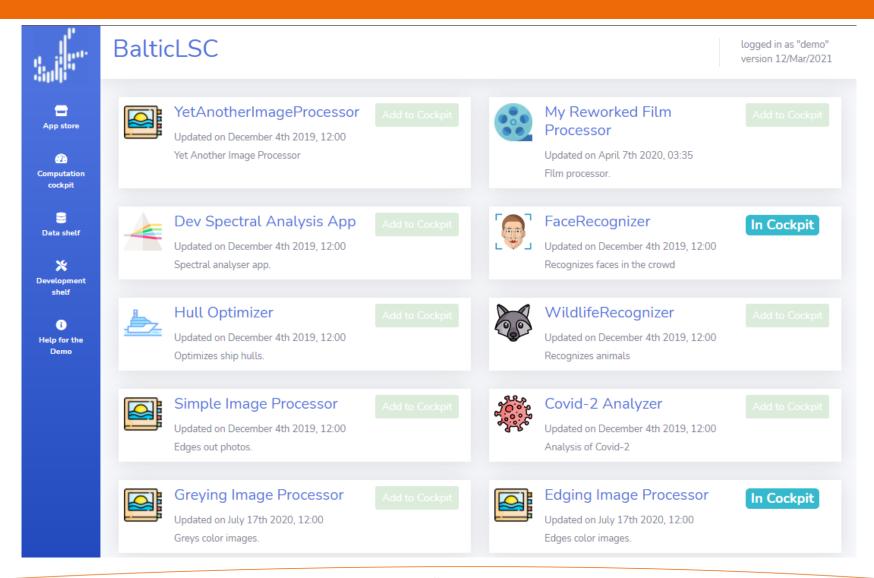






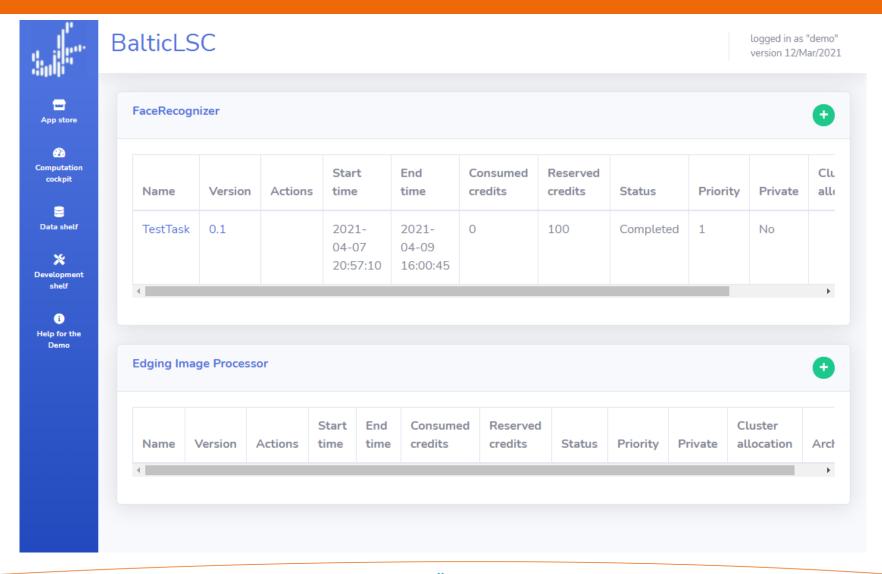


Application Store

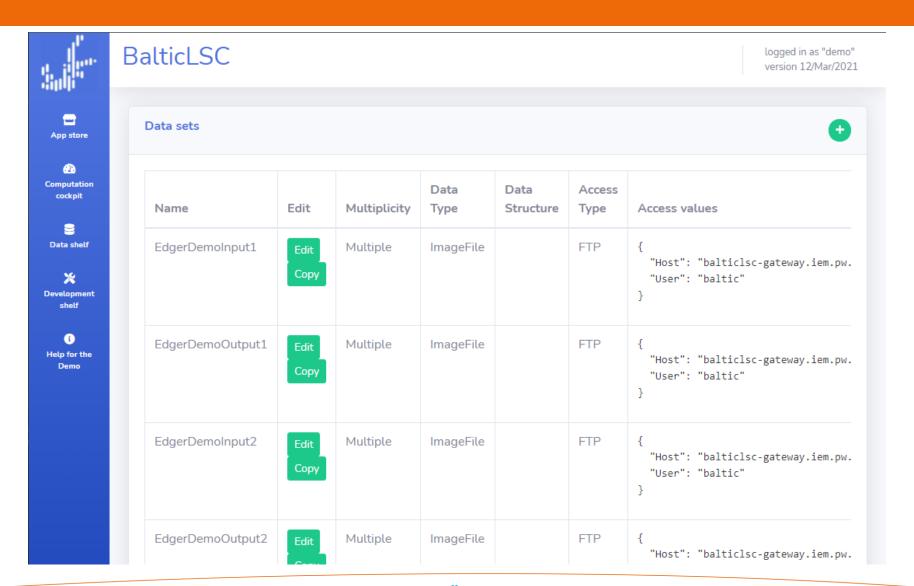




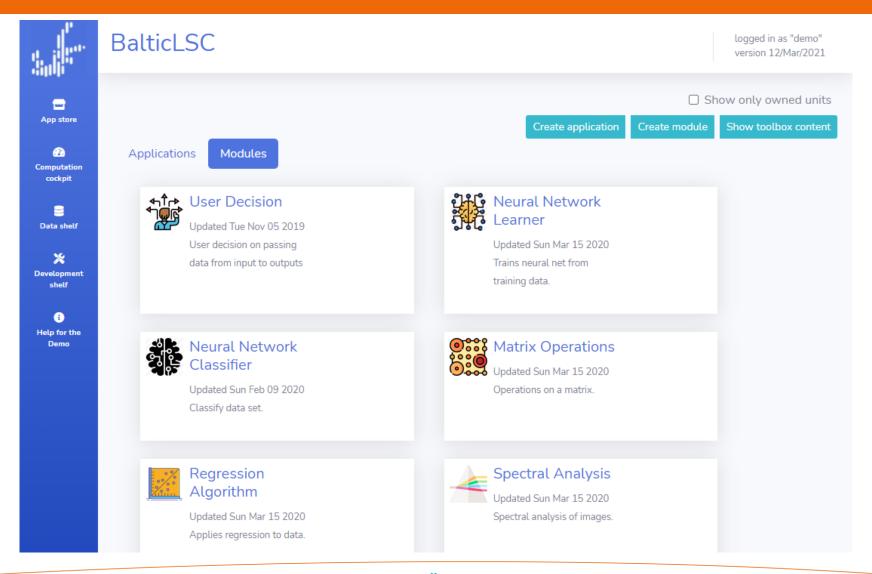
Computation Cockpit



Data Shelf

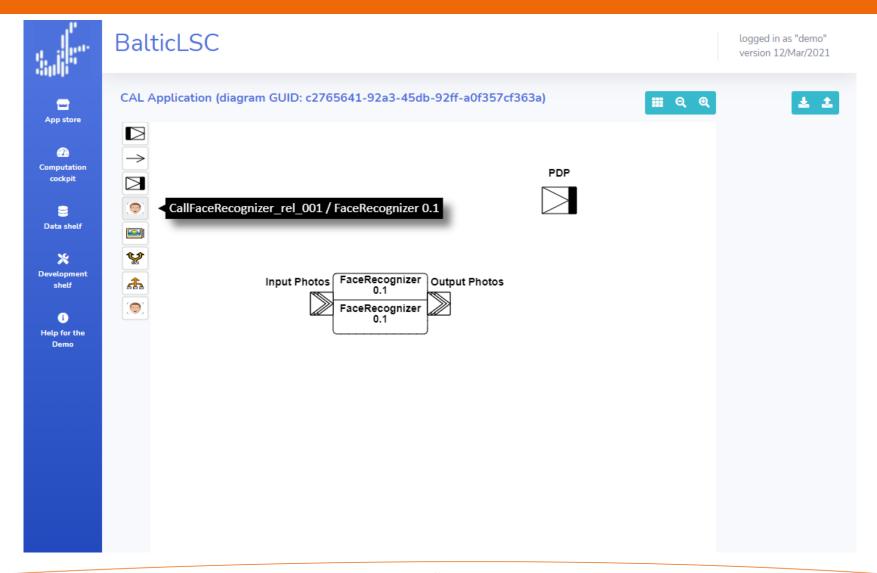


Development Shelf

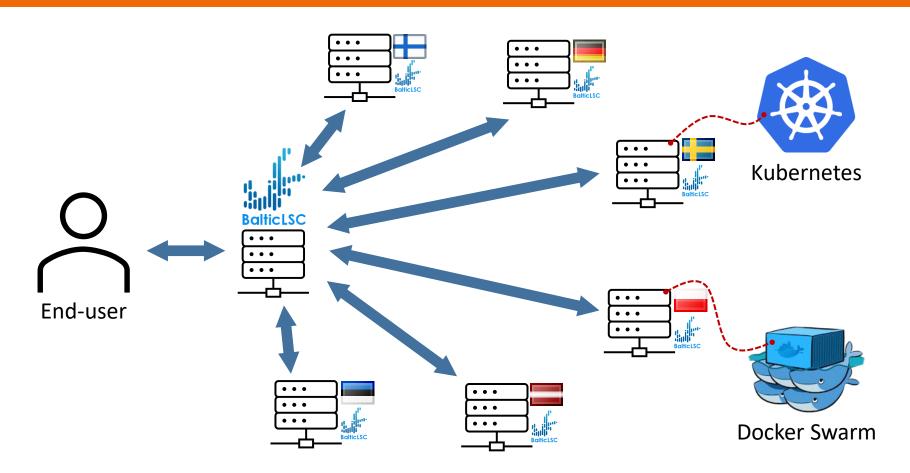




CAL Editor



BalticLSC Computation Platform

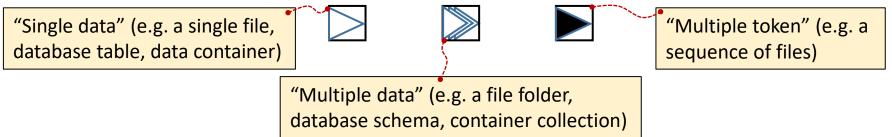


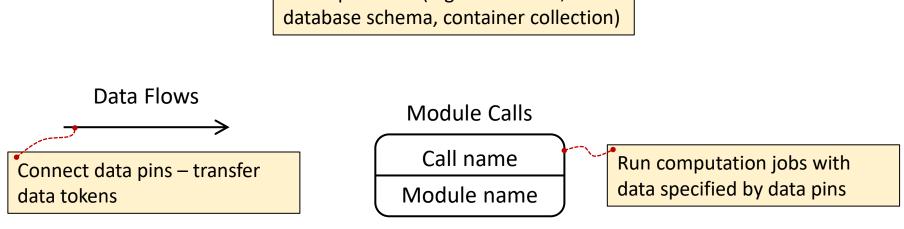
Computation Clusters of various size and operating software can participate in the BalticLSC Computation Platform

BalticLSC Applications

 Computation Application Language - a visual (graphical) low-code language

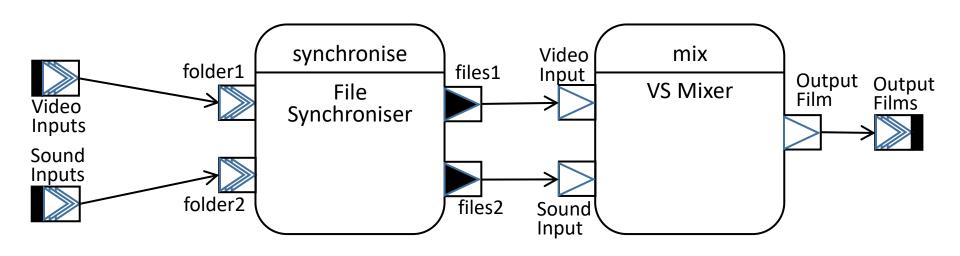
Data Pins (data input/output sources)





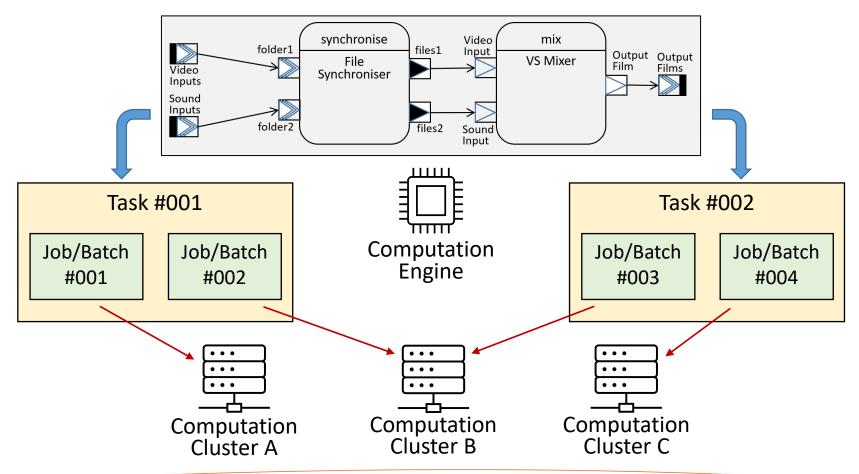
CAL Example – Multi VS Mixer

- Process many video-audio pairs
- Mix video and audio pairs into films
- Possible parallel execution of several instances of VS Mixer

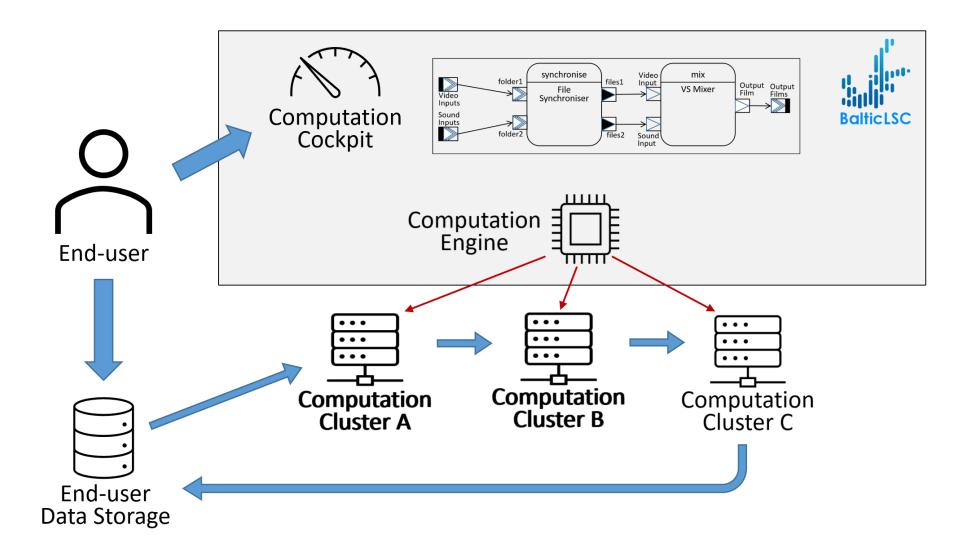


Running CAL Applications

- Application → Task
- Module Calls → Jobs (Batches)



How the BalticLSC Platform Works?



Warsaw University of Technology

Contact

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EUROPEAN UNION

EUROPEAN REGIONAL DEVELOPMENT FUND