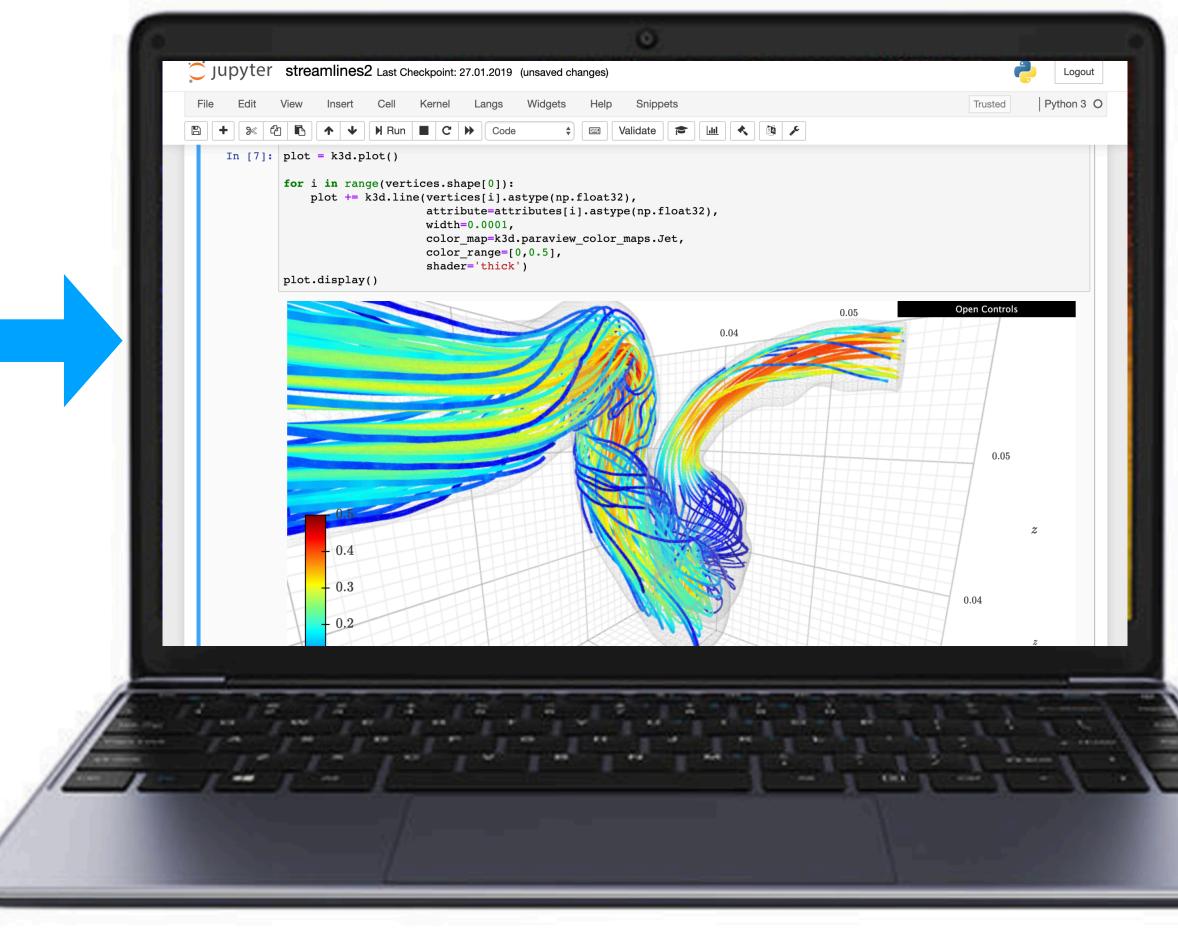
K3D-jupyter, visualization VRE

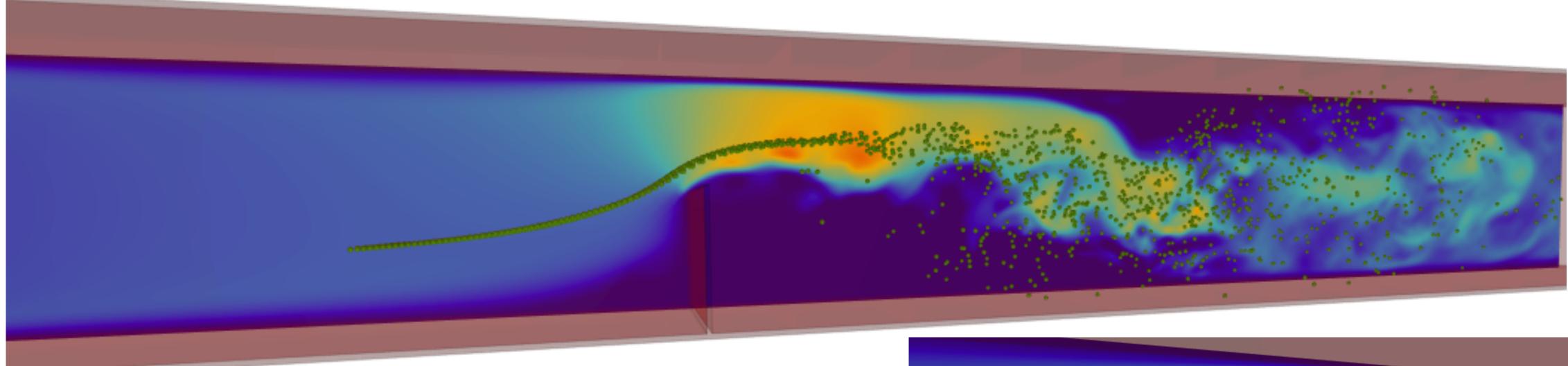


Fluid dynamics simulation running on **HPC** resources at University of Silesia Poland



Notebook with K3D-jupyter





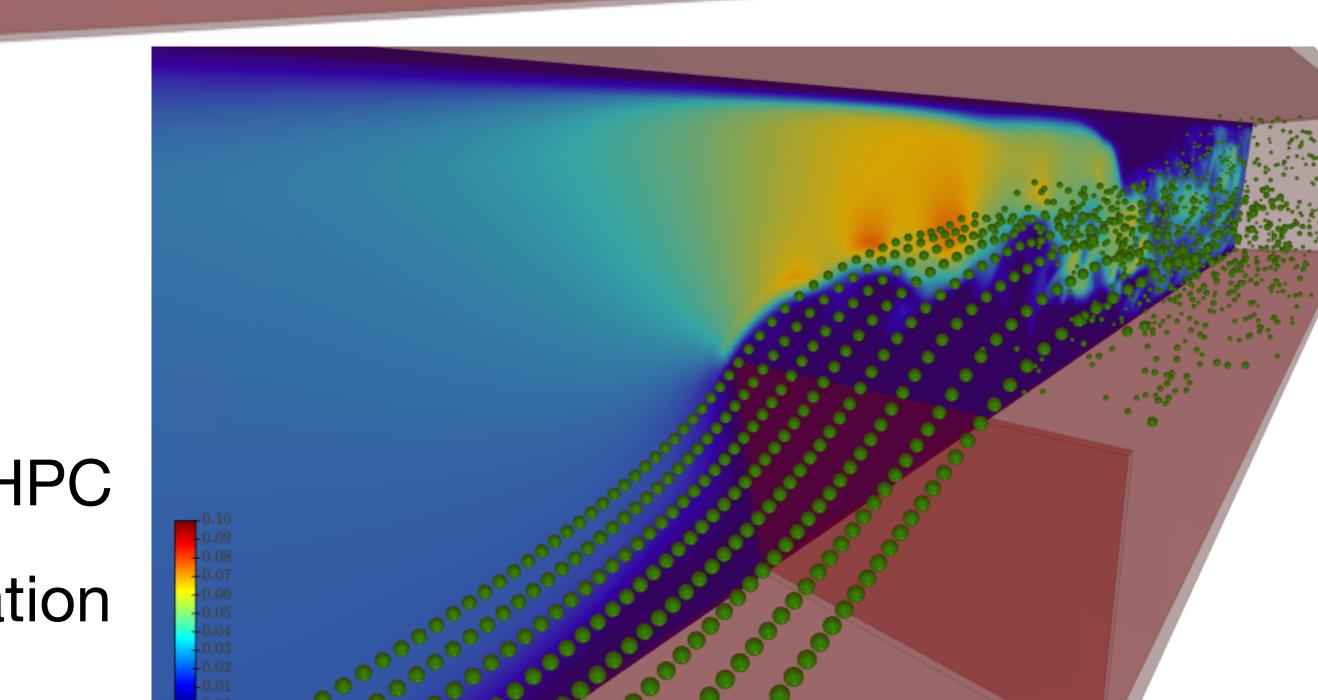
plt_slice.attribute = runner._sim.vx[:,gy//4,:].copy()

Executed on HPC

ipywidgets communication

Real time visualisation





Volume rendering

- medical imaging
- field of depth, shadows
- Cinematic rendering in hi-resolution (slow, but programmable)
- Structured mesh only, will be extended to chunk-like format soon.
- Direct visualisation of fluid dynamics scalar fields





