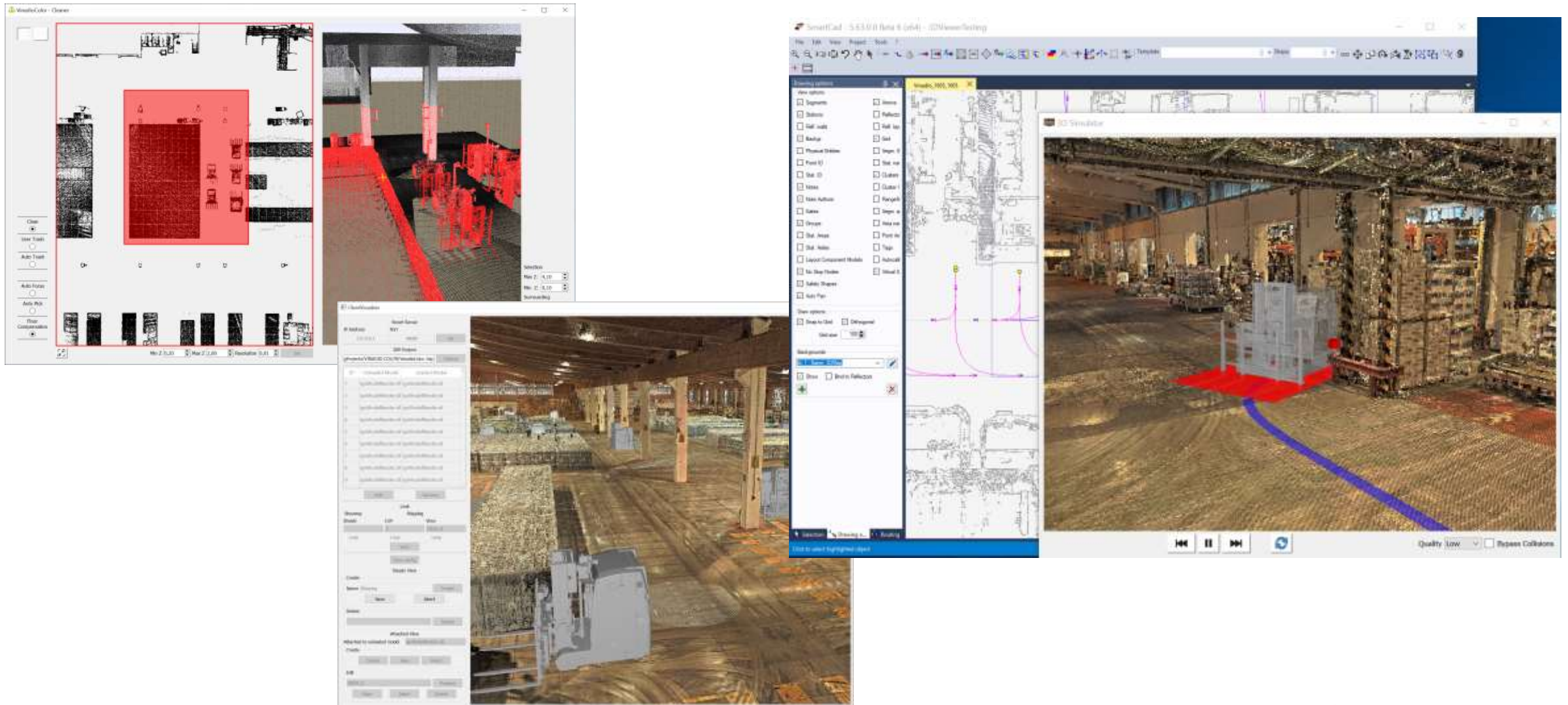


Framework per applicazioni 3D basate su Qt

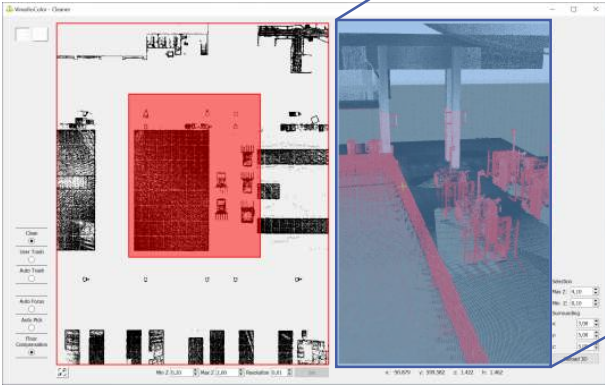
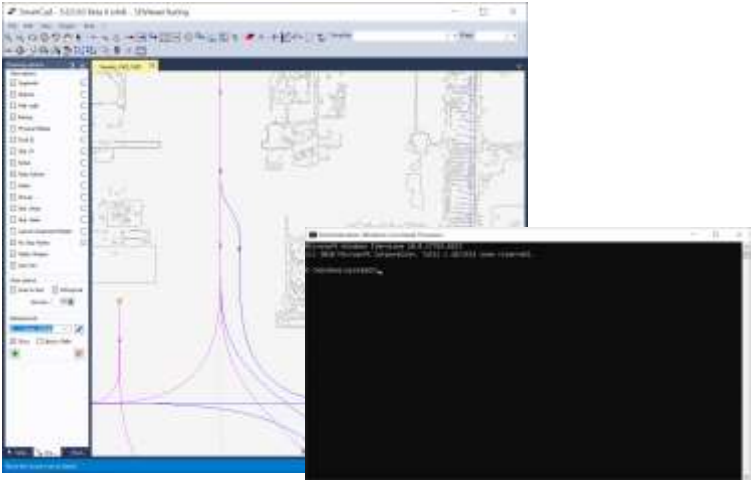
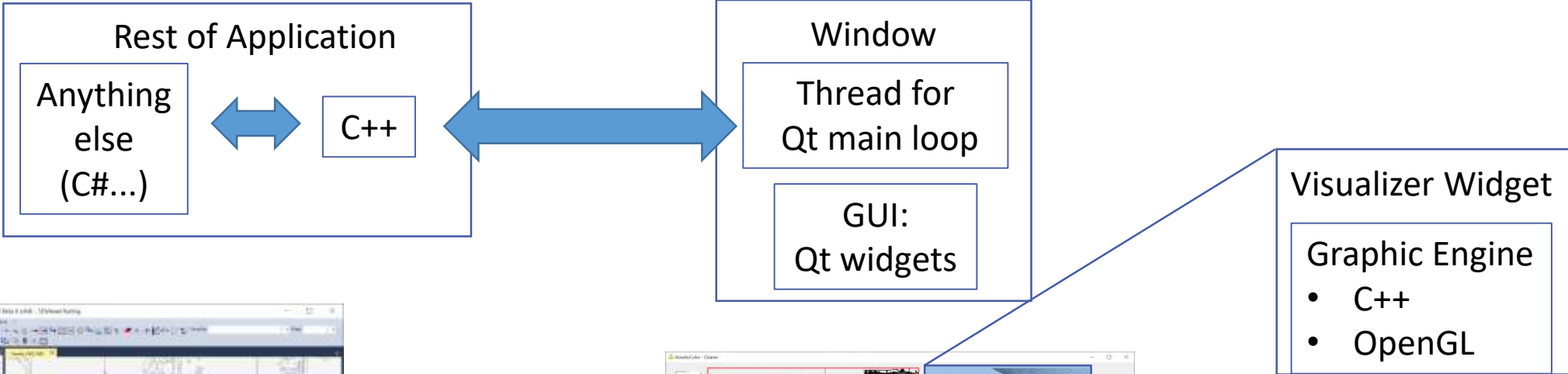
Preface

- Framework developed from scratch
- Software architecture
- Faced problems & solutions
- Feel free to: Ask any questions & propose improvements

Goal

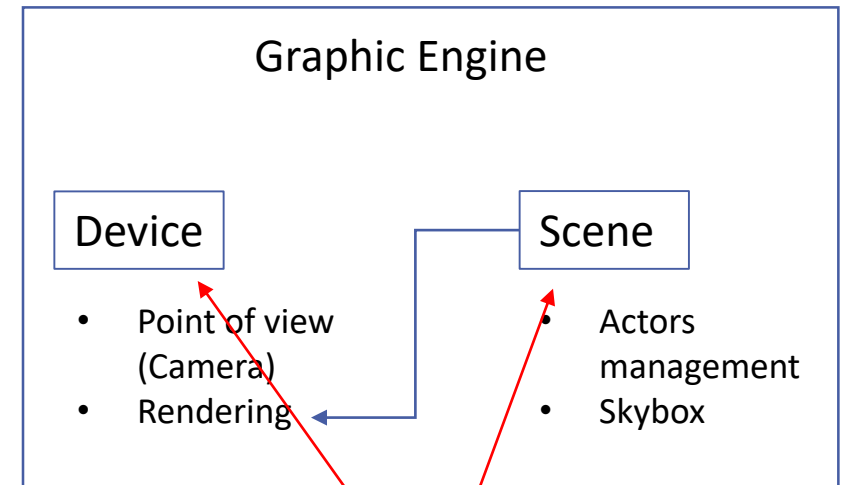


App decomposition



Graphic Engine

- Manage user 3D experience
- Manage scene graph
- Update & render Actors (everything can exist into the scene)
- Standard user 3D inputs (Forward, look around...)
- Virtual Reality (VR) Support (e.g. Oculus Rift)

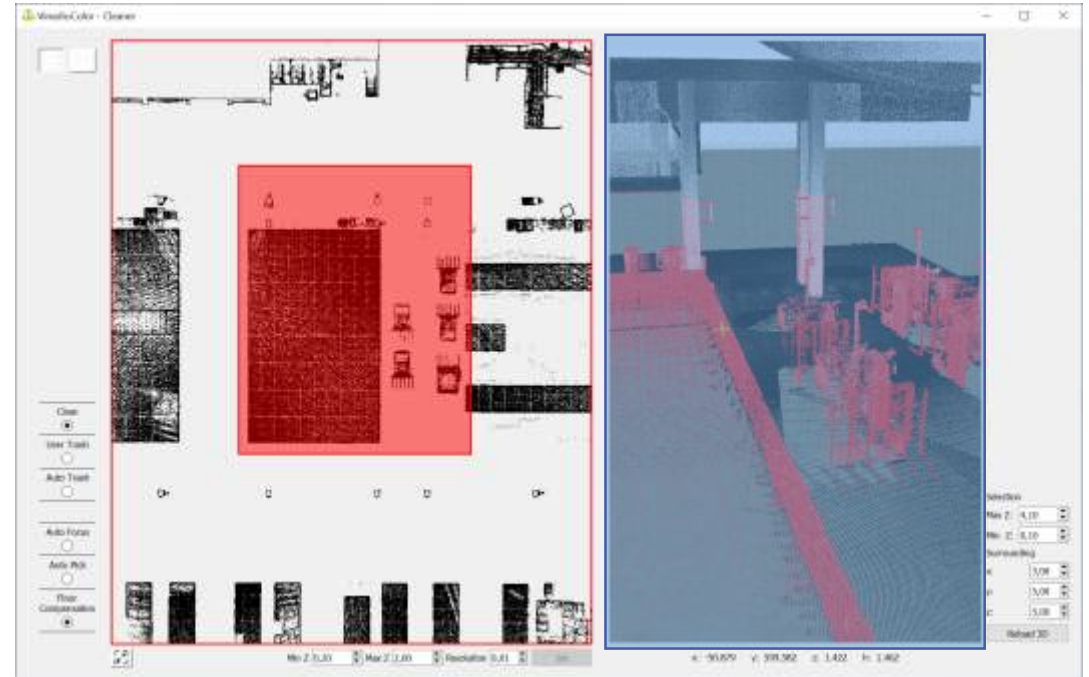


Lets look inside !

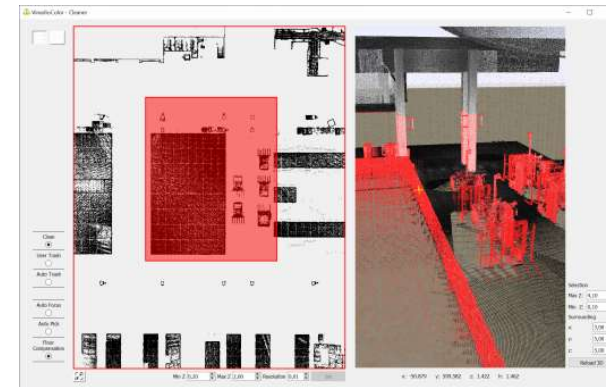
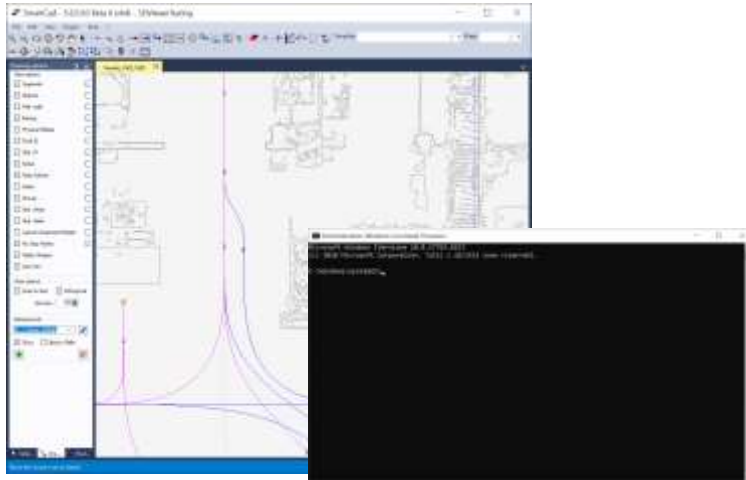
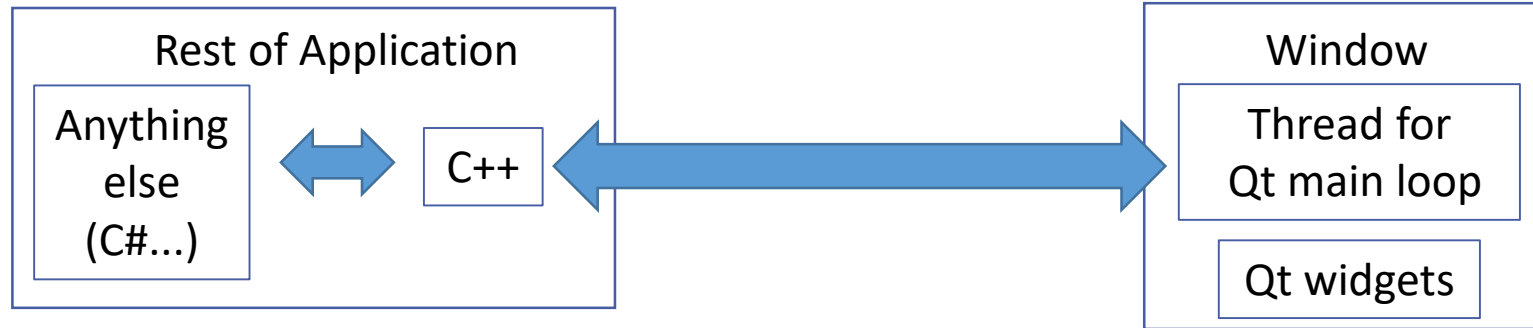
Visualizer Widget

- User interaction (mouse & keyboard input)
- Create and initialize OpenGL context and shaders
- Triggers scene Update and Refresh
- Provide high level API for Graphic Engine to support application logics

Lets look inside !

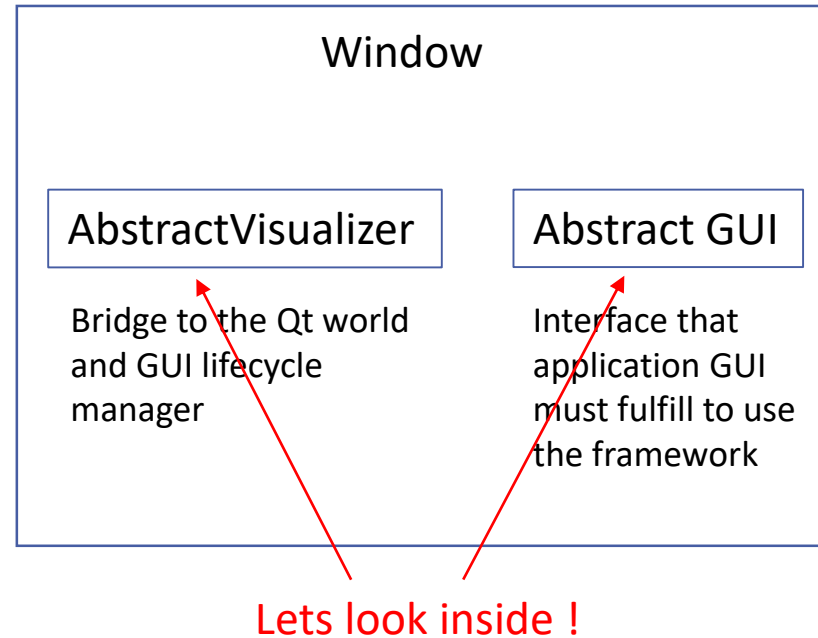


Recap



Window

- User frontend
- Manage Qt main loop (creation, run, etc...)
- Provide methods to interact with GUI to not-Qt applications



Thank you for watching!!!