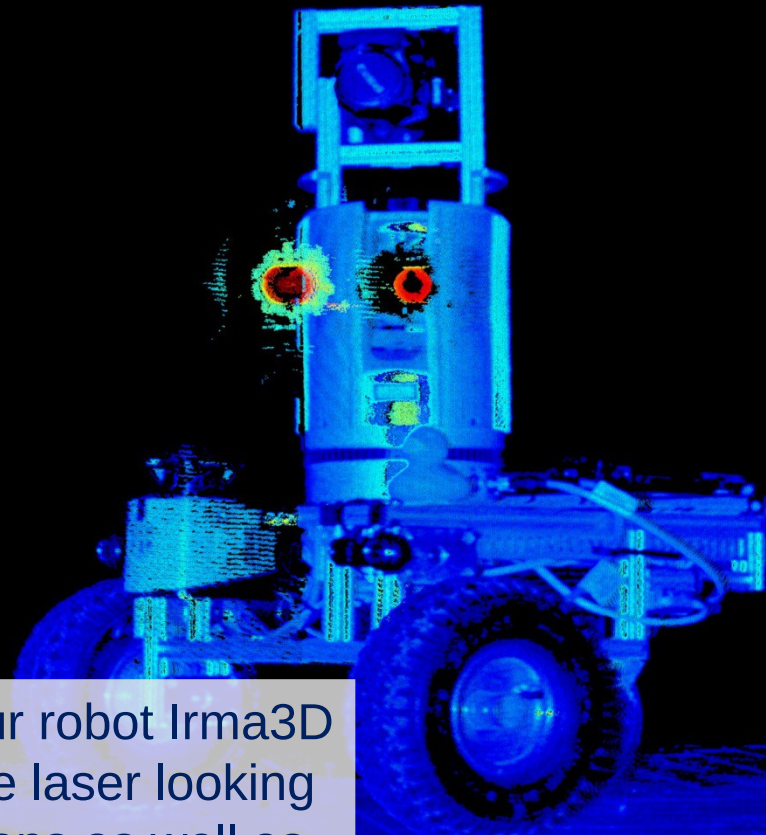


3DTK – The 3D Toolkit



The image depicts how our robot Irma3D sees itself in a mirror. The laser looking into itself creates distortions as well as changes in intensity that give the robot a single eye, complete with iris and pupil.

Thus, the image is called "Self Portrait with Duckling".

Prof. Dr. Andreas Nüchter

3DTK – The 3DToolkit

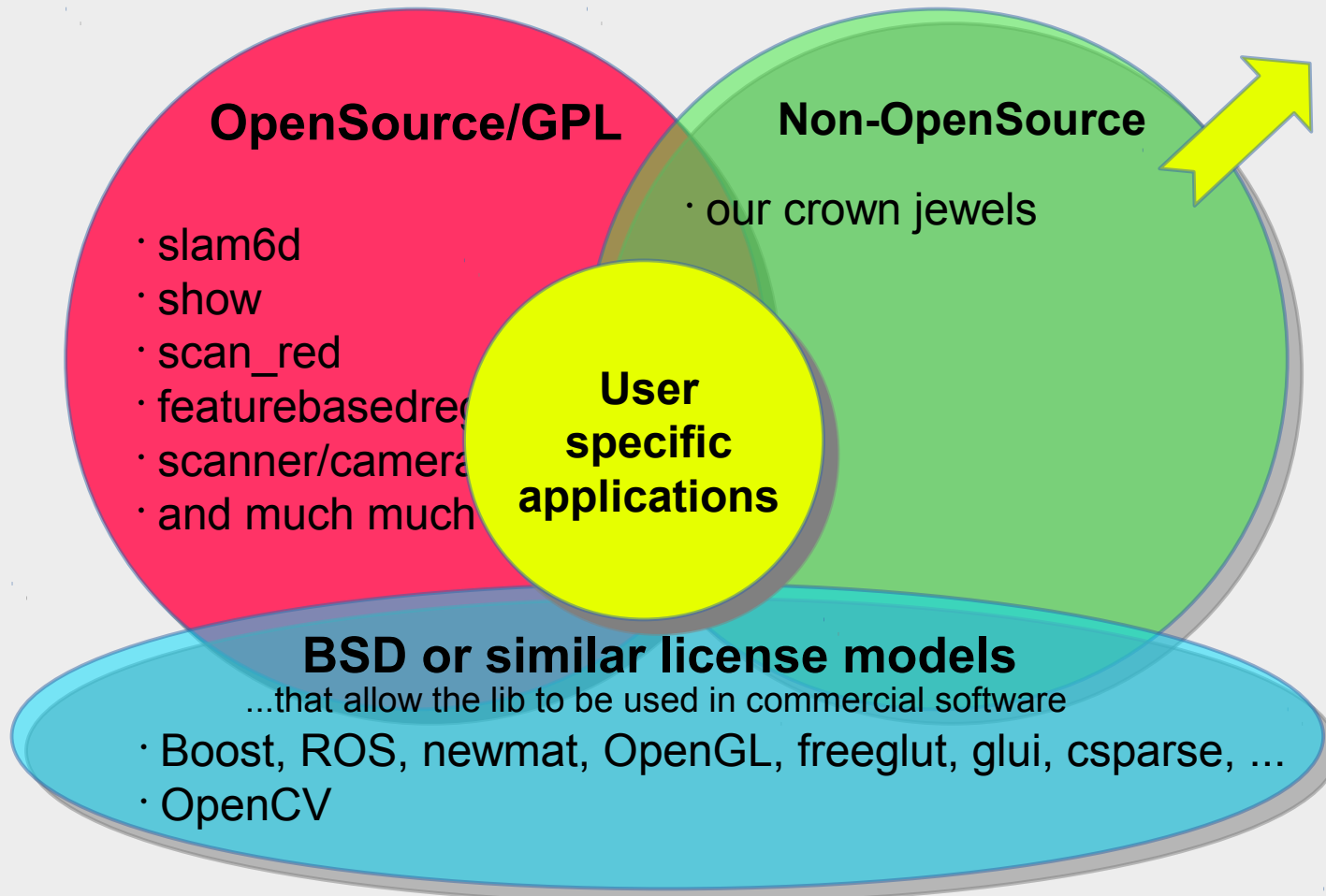
- Toolkit means
...it is no library!
...set of programs that perform a certain job



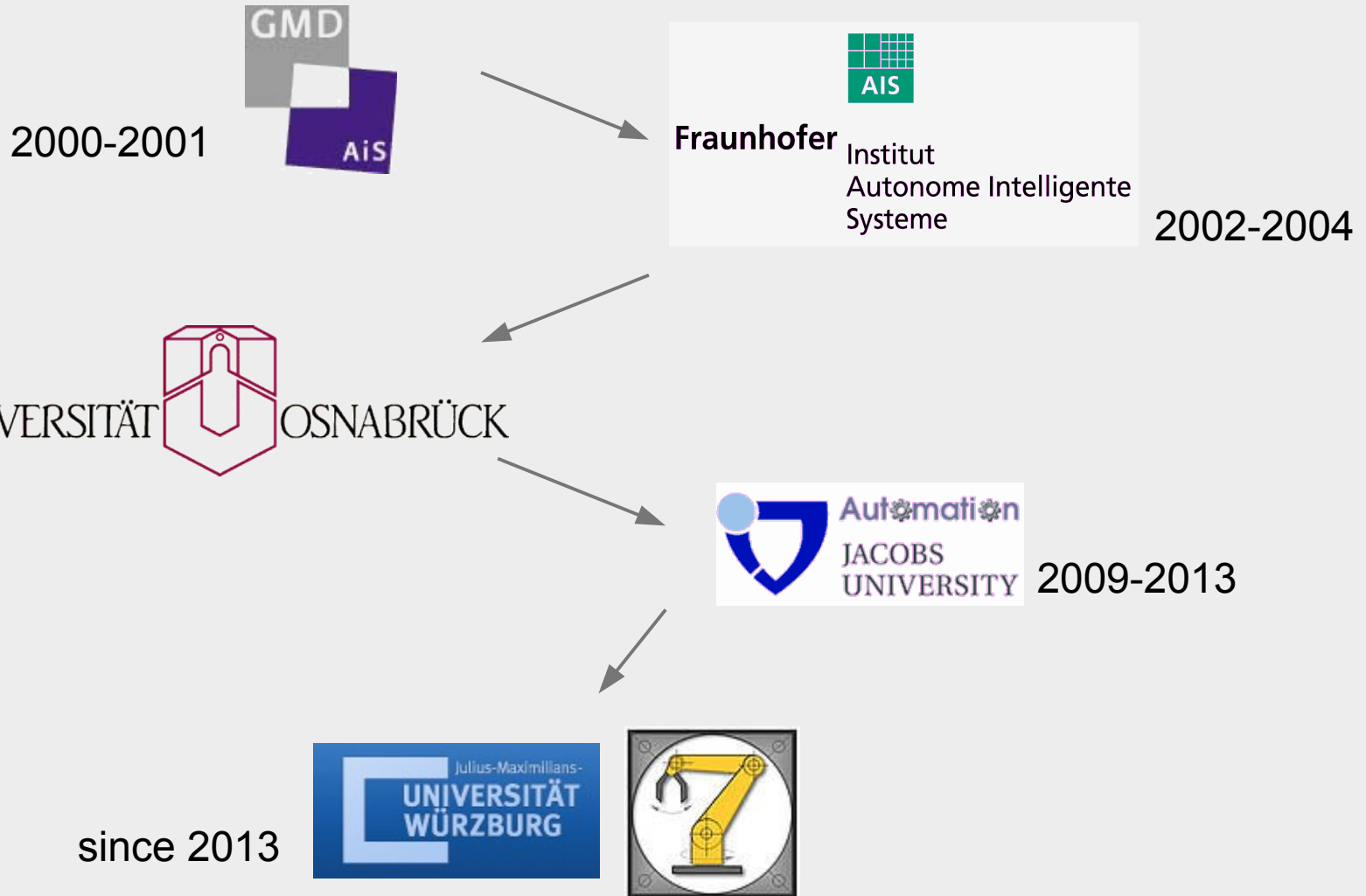
- GNU GPLv3 license with a few additional restrictions
- Same code may be licensed in some other ways as we are the sole authors and copyright holders of the work.



3DTK – The 3DToolkit

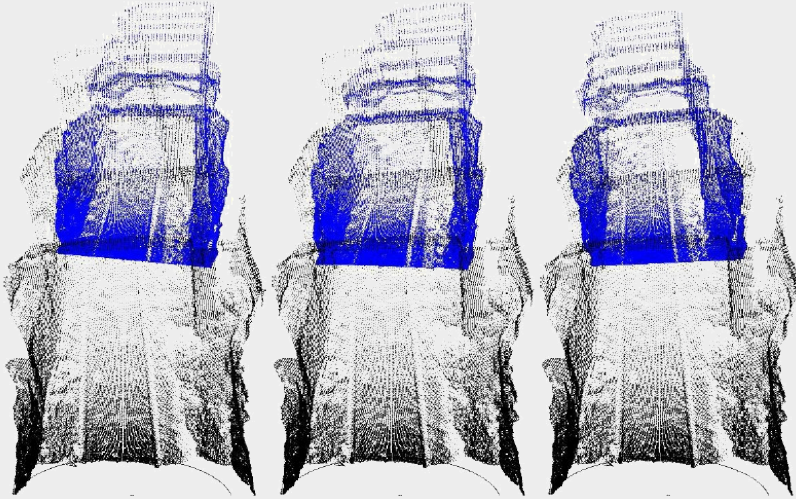


History



Background – SLAM/Robotics

CMU 3D mapping of abandoned mines



RoboCup Rescue

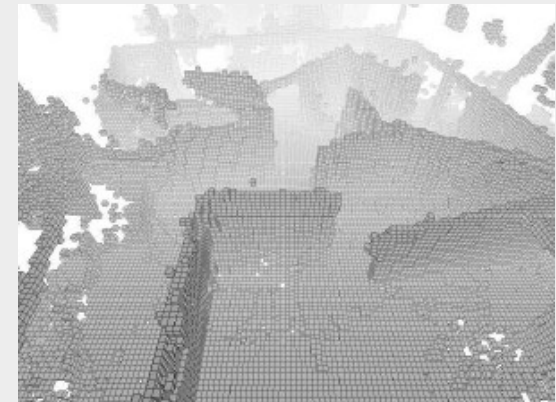


(video)



(video)

(video)



Processing of Professional 3D Laser Scans

- Terrestrial 3D Scanning
- Terrestrial & Mobile Mapping

(video)

(video)

