OME Users Meeting 2009, Paris

Dipl.-Inf. Matthias Dunda

FOCUS ON SERVICE

Outline

- About c.a.r.u.s.
- Recent Projects w/ OMERO
- Current Development
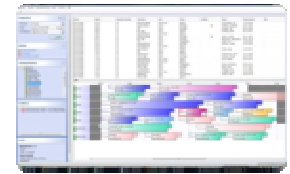- Outlook

About c.a.r.u.s.

- High Performance Hard- & Software Solutions

- HQ in Norderstedt (Hamburg Metropolitan)

- Founded 1987

- approx. 100 employees

- 25 mill. revenue (2007)

Germany
- Norderstedt | Hamburg
- Berlin
- Hannover

Romania
- Brasov

c.a.r.u.s. Businesses

- **Health**
 - myMedis – Module based hospital information system (HIS) supporting the main clinical processes

- **Life Science**
  - ViSoR – a highly innovative and worldwide unique knowledge management workplace geared towards pharmaceutical drug development
  - OMERO – integration solutions with focus on high content/throughput screening
  - Services@MediGrid – linking research institutes in the areas of medicine, biomedical informatics and life sciences into a consortium
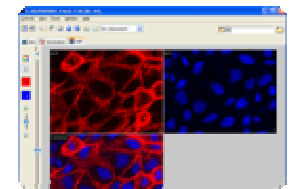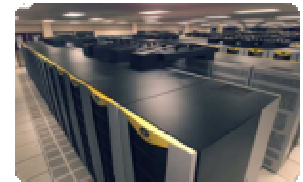
Former Work with PerkinElmer

- OMERO Beta 2.3

- Opera Integration

  - Replacing an Existing Commercial Product for Image Storage

  - Thus, predefined WSDL

  - Client Side Queue (Dispatcher)

- Acapella Integration

  - Custom Definitions and WSDL

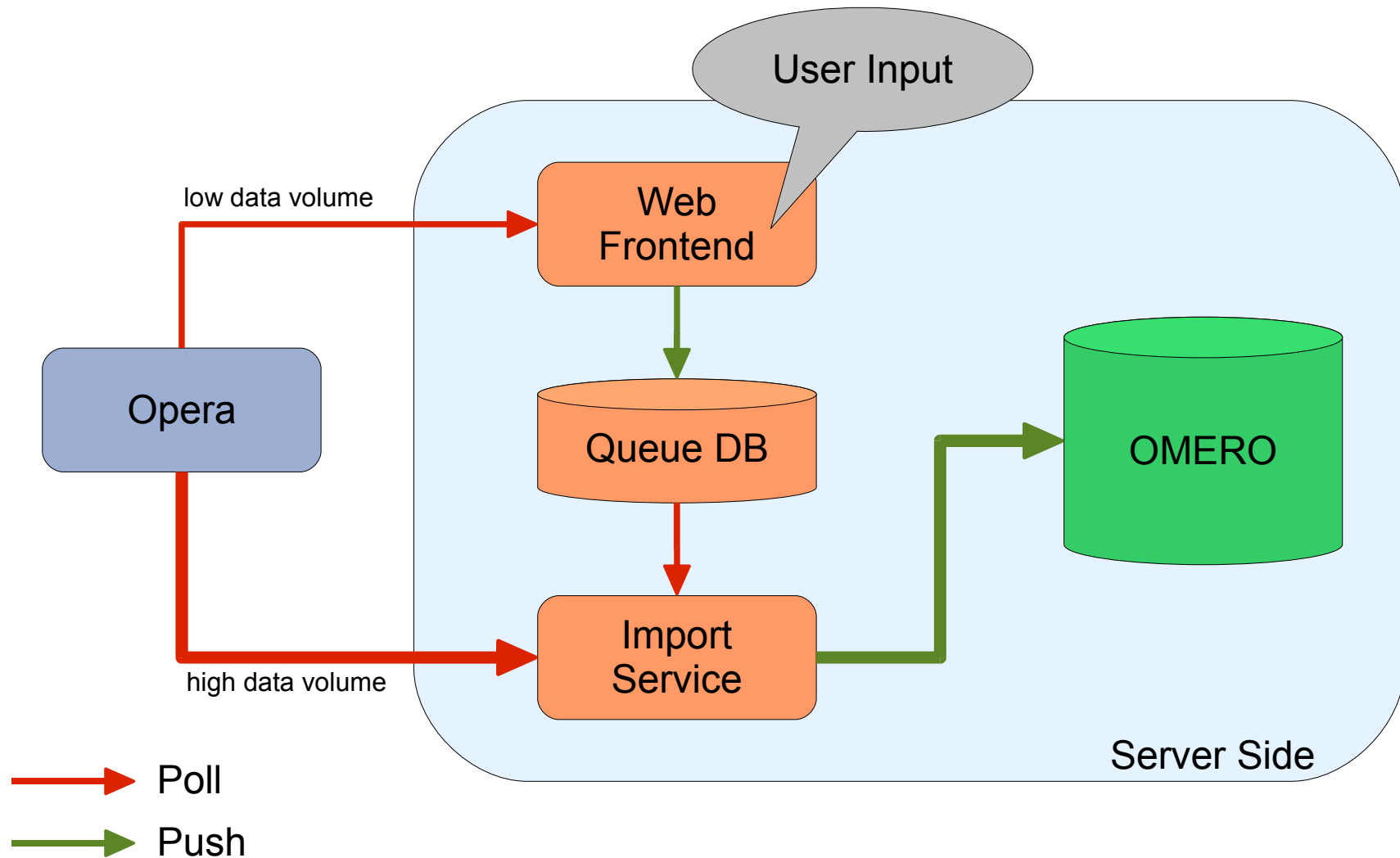- Based on Web Services

  - Apache Tomcat

  - Axis2
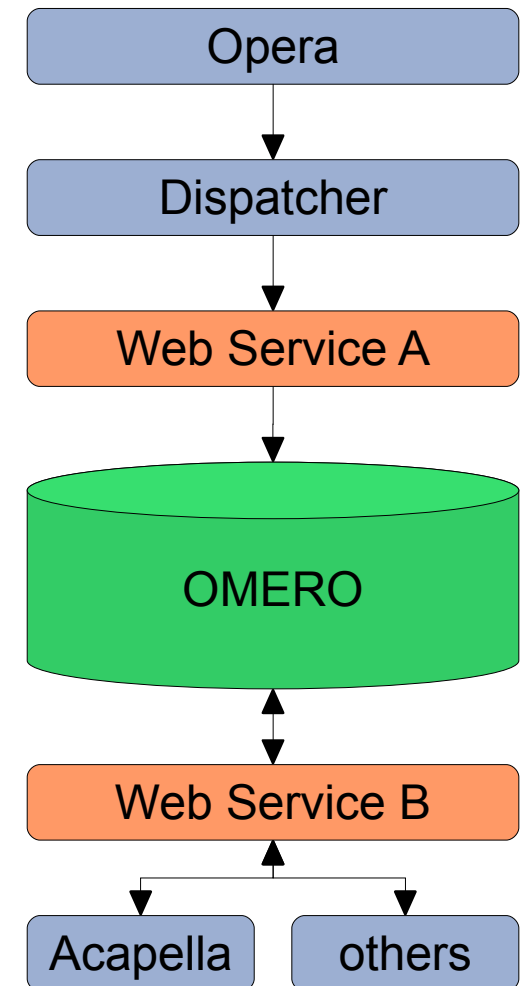
OMERO Beta 4 Development

- Important: *Speed*

- Use Local Network Services (Samba, NFS)

- Parallel Importing of Multiple Images

- Server Side Queue
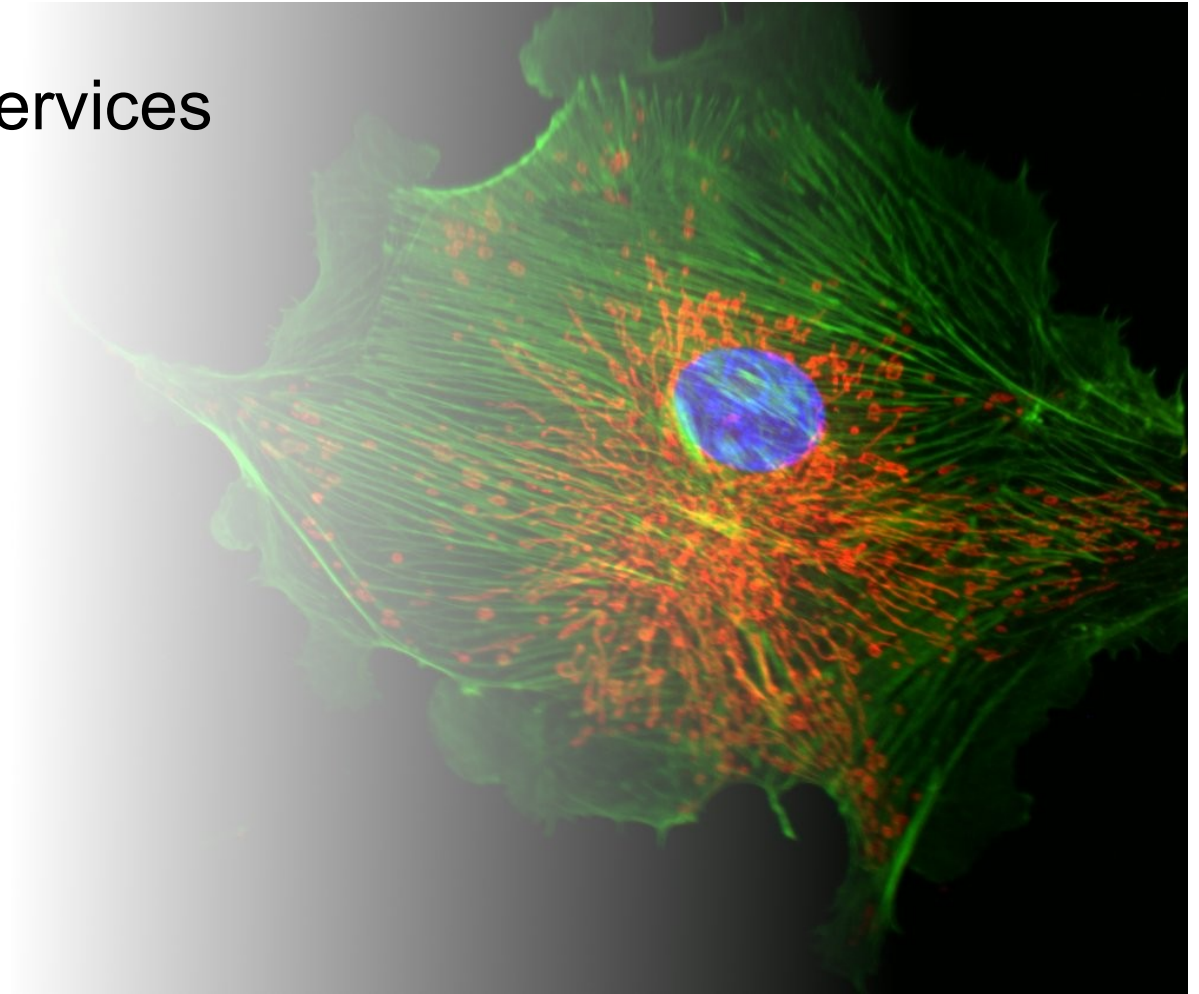
Queued Multithreaded Import

European ScreeningPort

- Project Management and Funding

- Assay Development

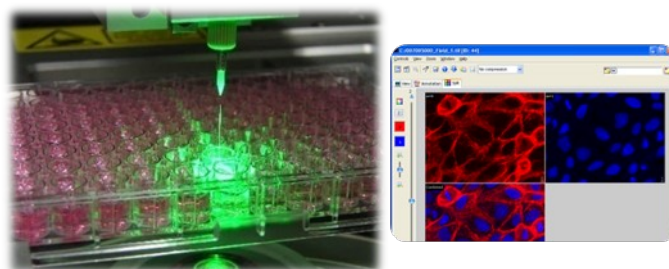- Hit Finding

- For Academical Clients
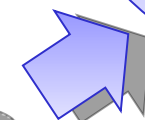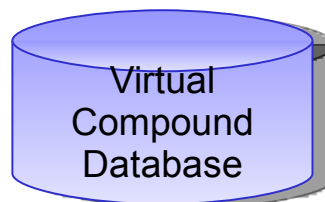
http://www.screeningport.com/

A Single Environment for Virtual and Assay Based Screening

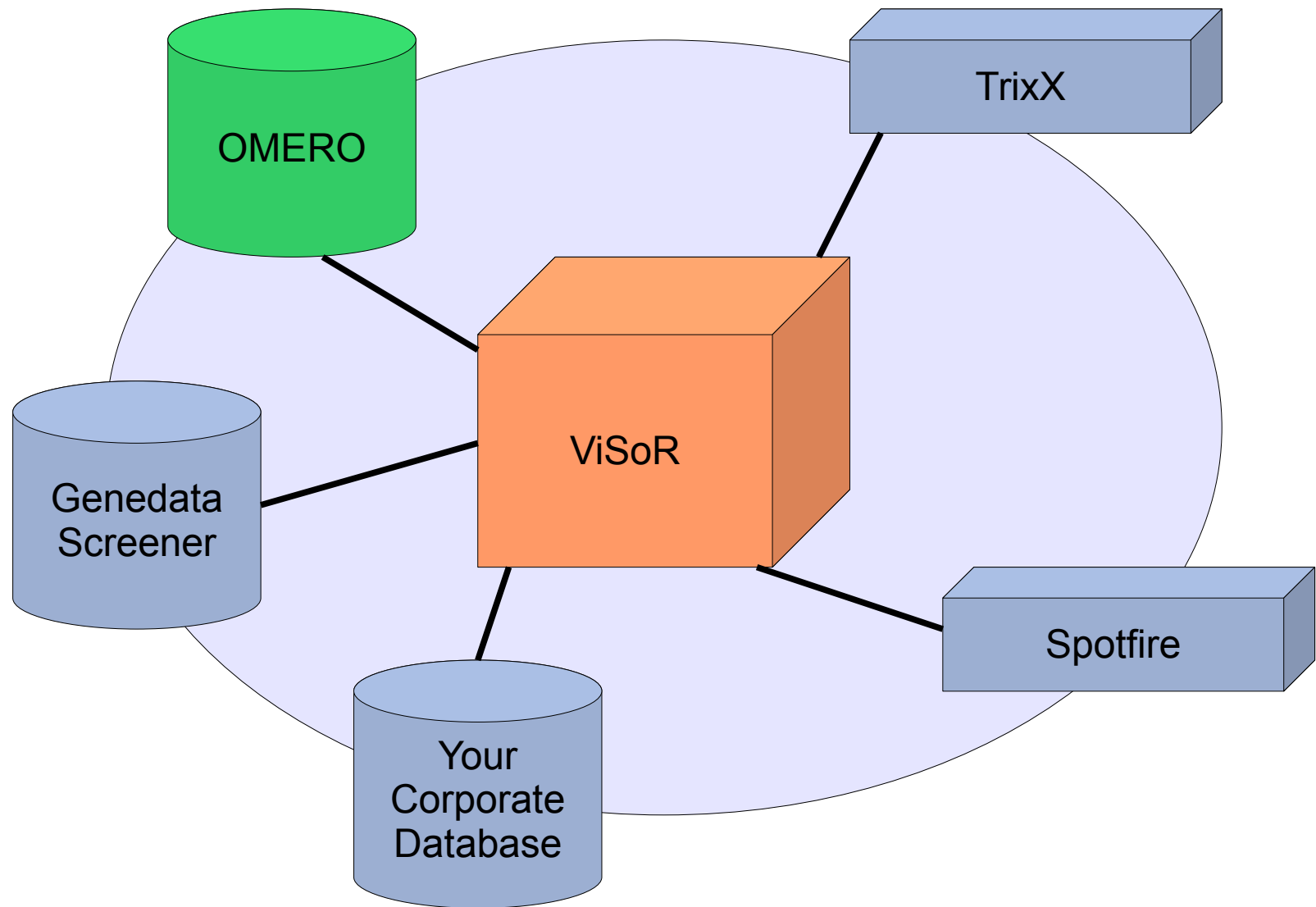**High Content Screening**

Virtual High Throughput Screening

Virtual Compound Database

ViSoR
Software Solution

Combined Hit Lists

Make ViSoR the Bedrock of Your Drug Discovery

carus®

Your DB

Oracle

PostgreSQL

Tripos   Opera   Autodock   TrixX

ViSoR Life Science Stack

ChemAxon   Tomcat/JBoss/Geronimo

cJEF-TX   cJEF-BC   cJEF-SMDB Server

cJEF High Performance Framework

Java 2 Enterprise Edition (J2EE)   Applikationsserver

Java 2 Standard Edition (J2SE JDK 5.0)

IBM/SUN – Hardware layer
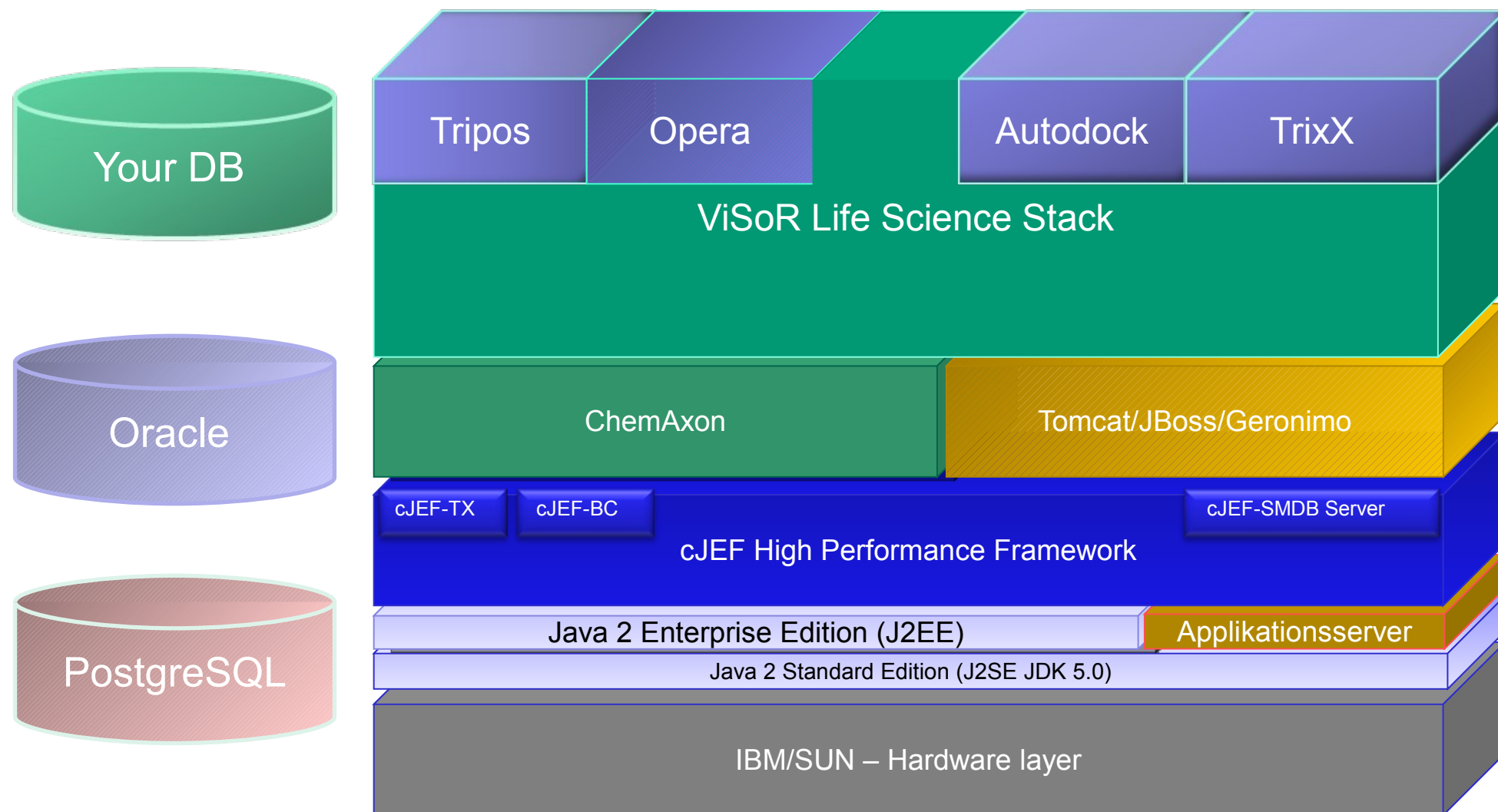
ViSoR-OMERO-Integration

Future Needs

- Stability

- Full Screen-Plate-Well Support in the GUI

- Screening Metadata Support

Thanks

Dipl.-Inf. Matthias Dunda

c.a.r.u.s. IT AG
Bornbarch 9
22848 Norderstedt
Germany

Phone: +49-40-5 14 35-0
Fax: +49-40-5 14 35-11 11

E-Mail: matthias.dunda@carus-it.com