DECTRIS®

detecting the future

DECTRIS Lunchtime Seminar

SRI 2015, New York City

DECTRIS Ltd.
5400 Baden
Switzerland
www.dectris.com

SRI 2015
NEW YORK CITY

Capturing the Light of Science & Innovation

Marriott Marquis Times Square | New York City July 6-10, 2015



Since 2006, we have delivered…



…32 PILATUS 6M

…26 PILATUS 2M

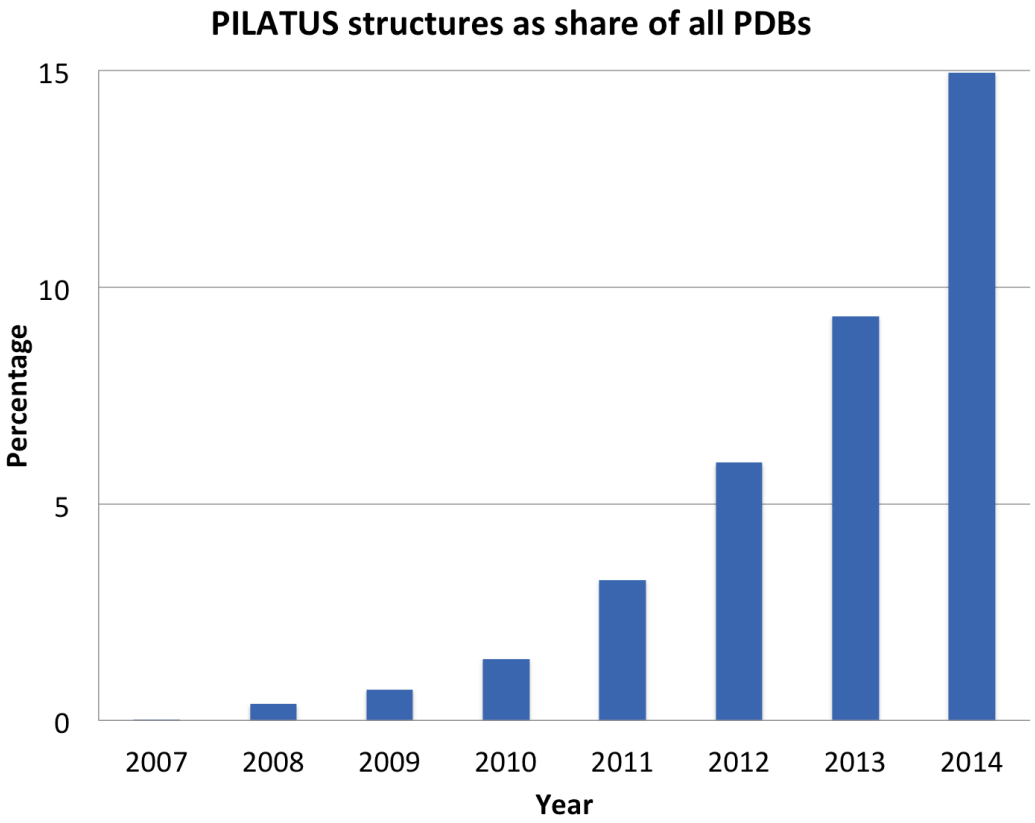
…32 PILATUS 1M

…hundreds of PILATUS 100K, 200K, 300K, 300K-W detectors

…many MYTHEN 1K, 6K, 24K detectors

…to synchrotrons all over the world

DECTRIS accelerates cutting-edge crystallography



Annual PDB depositions based on PILATUS data



Crystal structure of COP9 signalosome
Reference: Gondichatnahalli M. Lingaraju, Richard D. Bunker, Simone Cavadini, Daniel Hess, Ulrich Hassiepen, Martin Renatus *et al.*
Image: T. Splettstoesser (Aug 2014)



Crystal structures of CRISPR DNA complexes.
References: Sabin Mulepati, Annie Heroux, Scott Bailey AND Ryan N. Jackson, Sarah M. Golden, Paul B. G. van Erp, Joshua Carter *et al.*
Image: Valerie Altounian (September 2014)

What are we doing in the future?

We are investing in…

...the company



...the company

- **72 employees**
- **New functions and responsibilities**
  - **Product Management: Stefan Brandstetter**
  - **Support: Pascal Hofer**
  - **Sales: Ruben Vogelsang**
  - **Software: Markus Mathes**
  - **Application scientist: Andreas Förster**
- **....and a lot of continuity**



...moving into a new building: Täfernhof II, Baden-Dättwil



Rental area: 5000m^2

Clean Room Installation Aug 2015

Company Relocation Nov 2015


implenia

...new markets

synchrotron	laboratory & industry	medical









...new products: EIGER

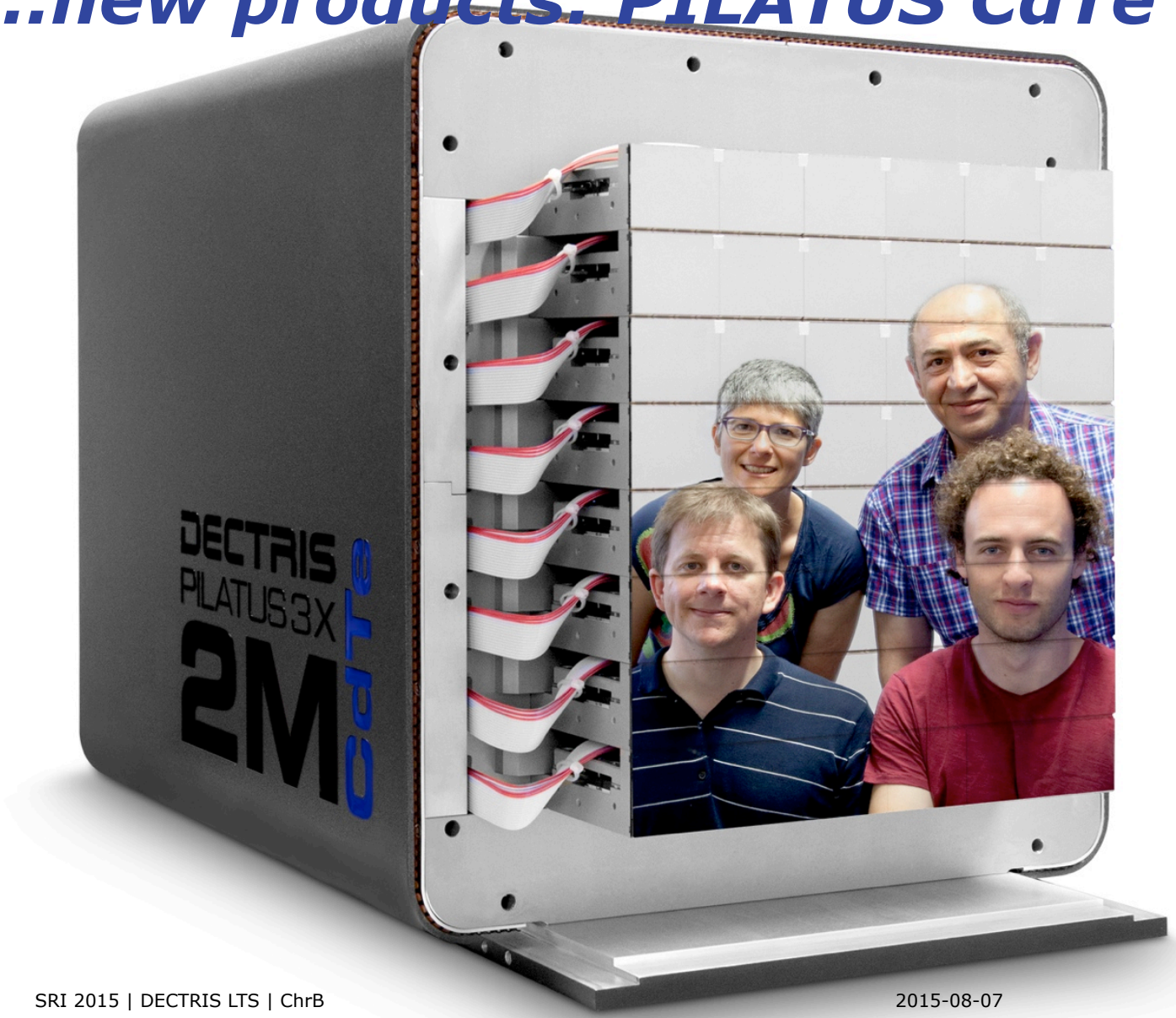


Invested > 40 man-years into EIGER development

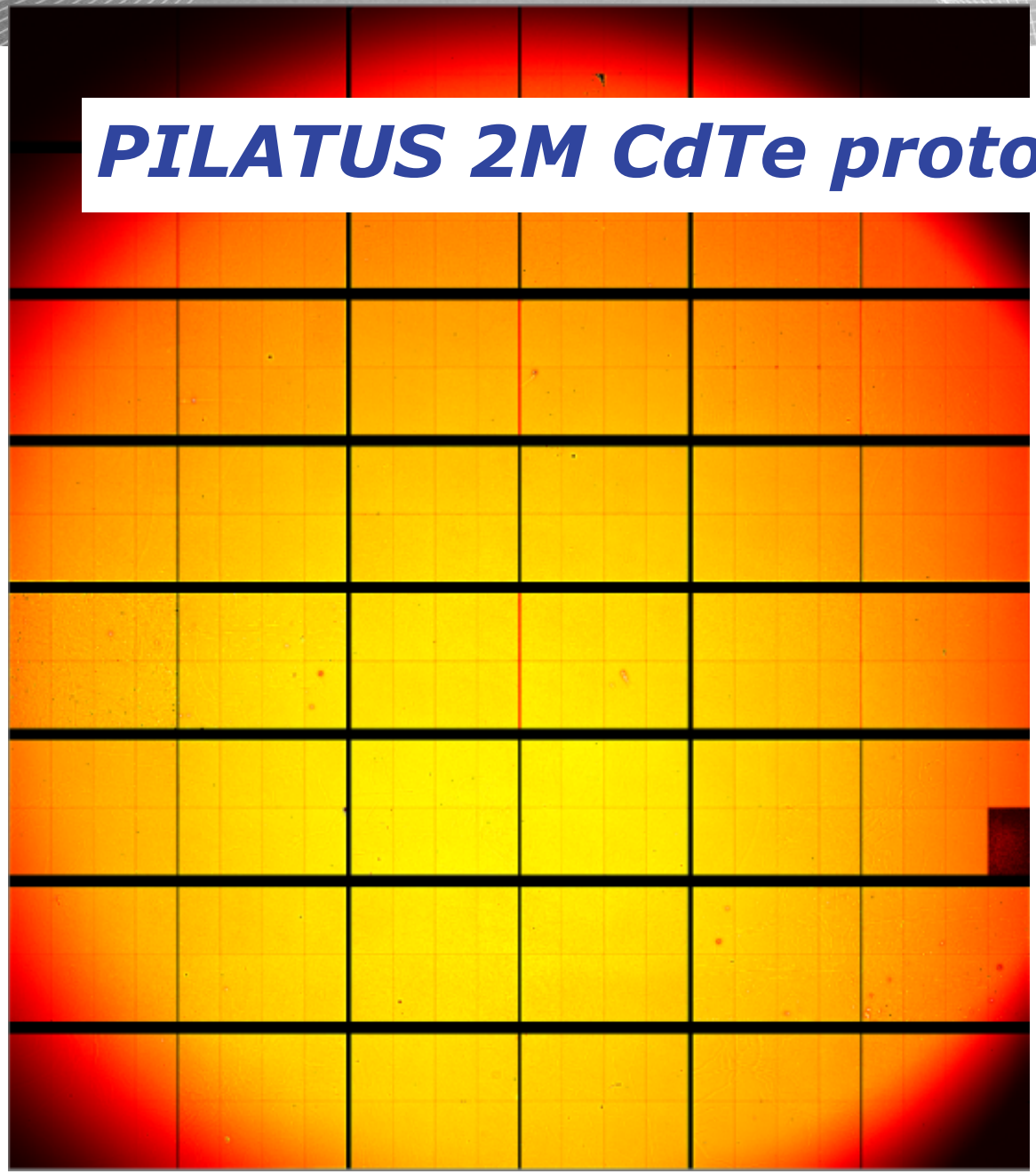
Highest priority for EIGER software development

We want to achieve the nominal frame rates

...new products: PILATUS CdTe



PILATUS 2M CdTe prototype



- **PILATUS 2M**
  geometry and quality
- **CdTe 1mm modules**
- **inactive area 8.5%**
- **defective pixels <0.1%**
- **max. frame-rate 250Hz**

Priorities and challenges

Installing cleanroom and moving into new building (Nov 2015)

Making EIGER as stable and robust as PILATUS

Developments for high frame rate detectors

Further development of PILATUS CdTe detectors

Coping with the higher counting rates of new sources: NSLS-2; MAX IV; Sirius; Upgrades of ESRF, APS, SPring-8

Making your challenging experiments possible!

Program

Products and roadmap
Clemens Schulze-Briese, DECTRIS

EIGER: current performance and prospects
Stefan Brandstetter, DECTRIS

XPCS results with EIGER X 1M
Prof. Mark Sutton, FRSC, McGill University



Thank you for your confidence in DECTRIS...