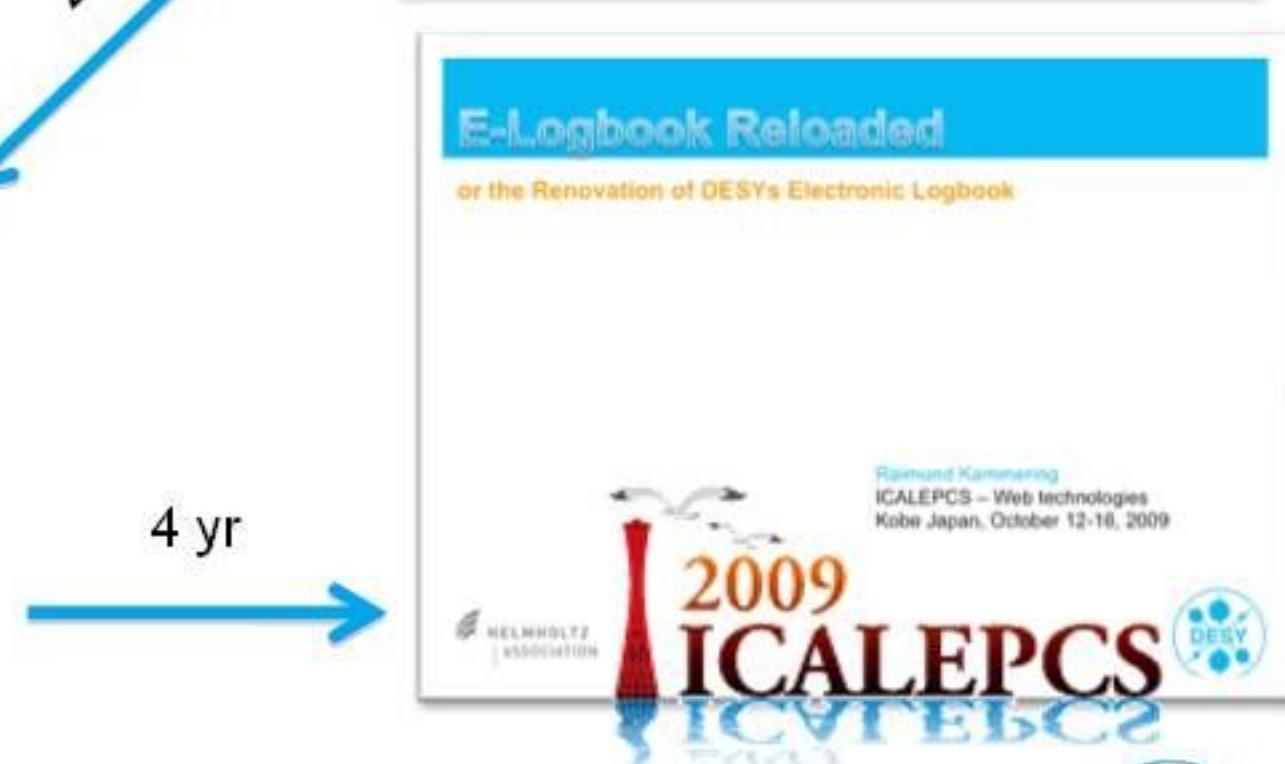
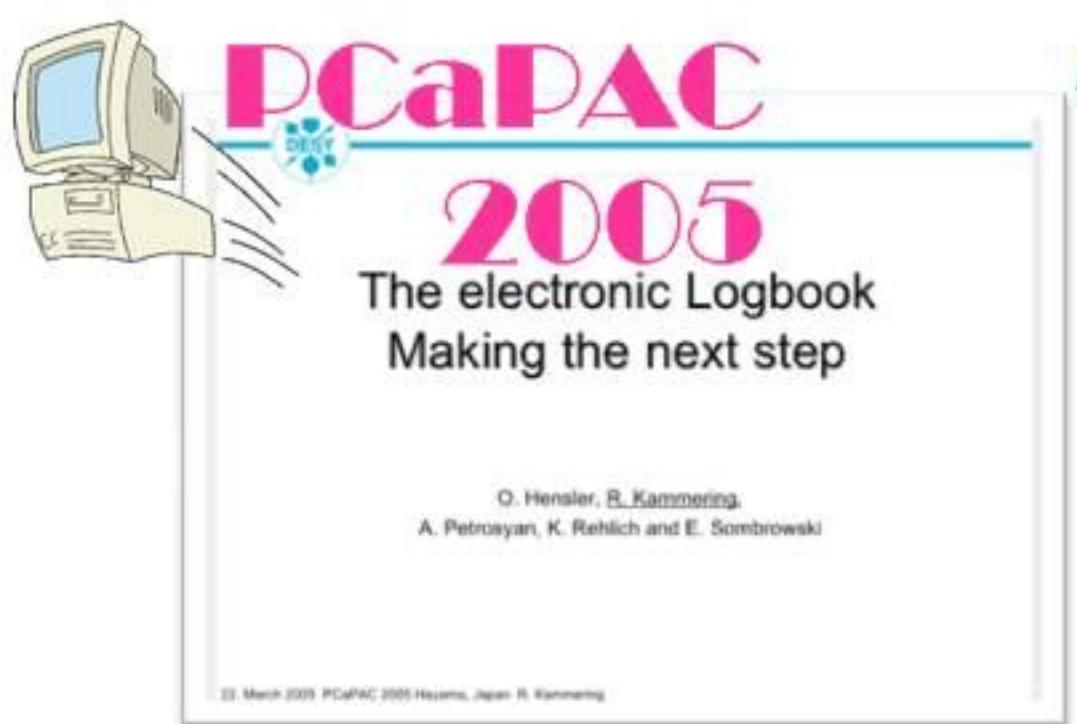
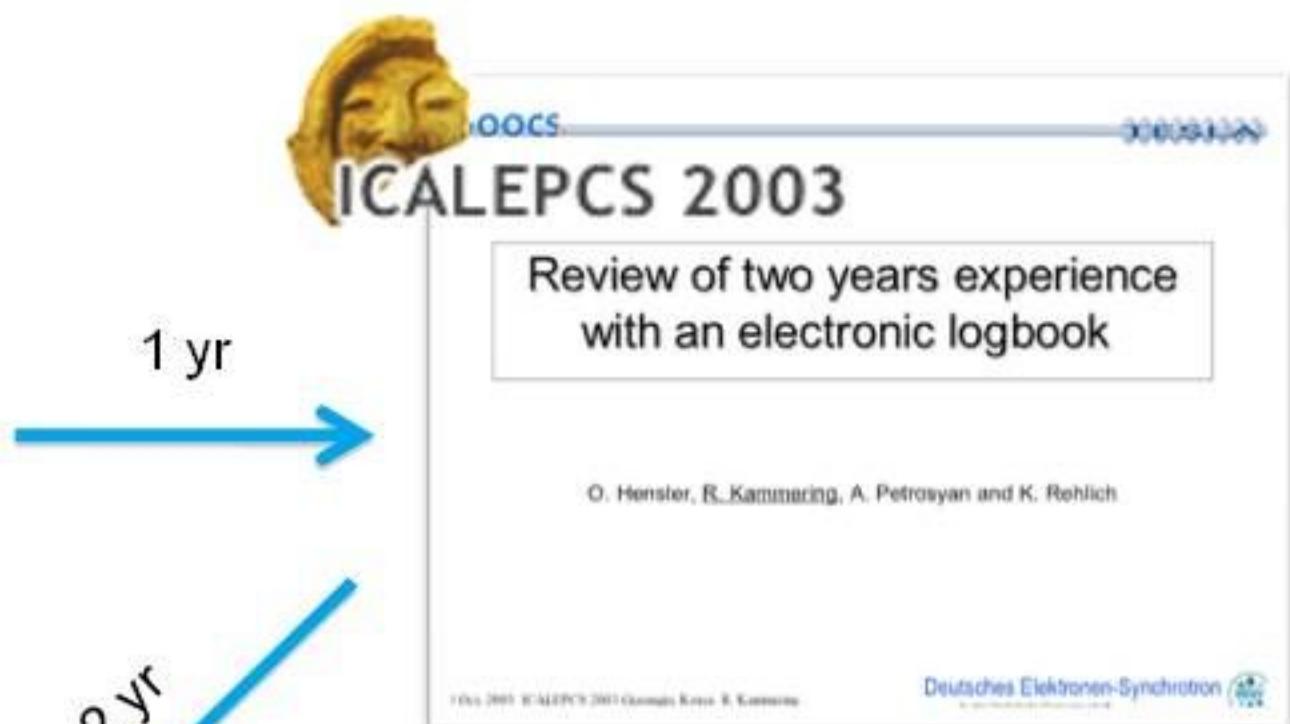
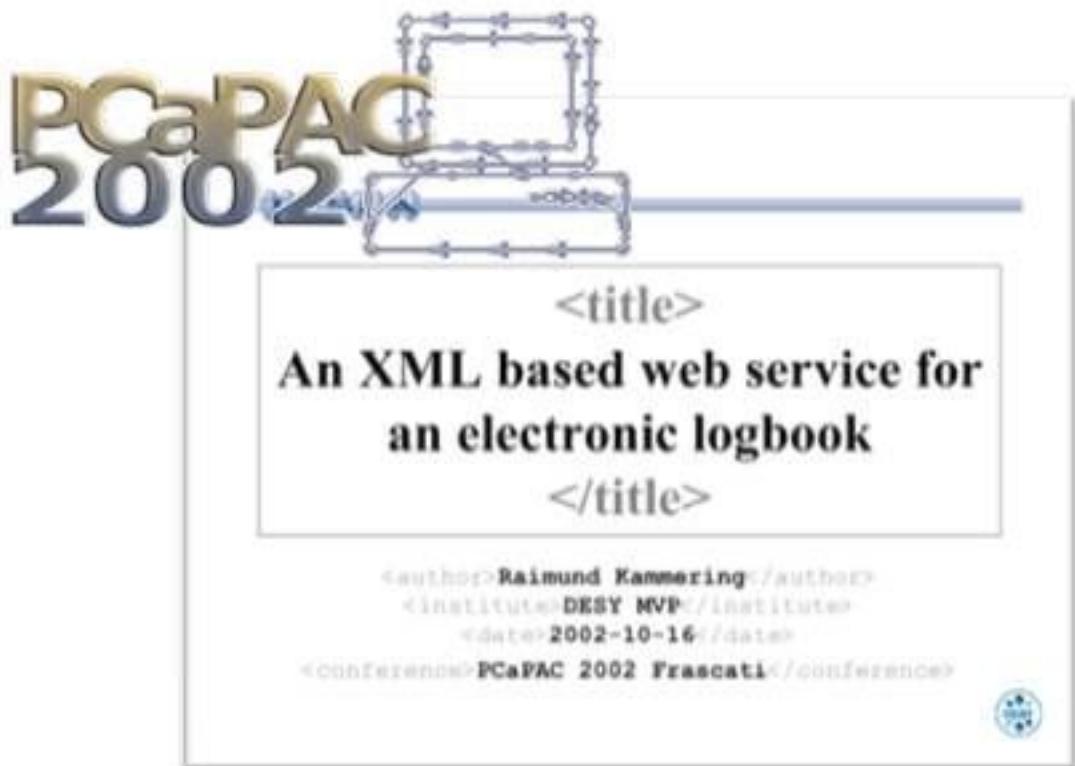


# E-Logbook Reloaded

or the Renovation of DESY's Electronic Logbook

Raimund Kammering  
ICALEPCS – Web technologies  
Kobe Japan, October 12-16, 2009

# The e-logbook talk cycles



# E-Logbook Revolutions

or the never ending story of  
DESYs Electronic Logbook

PCaPAC 2017, Japan

*Joint DESY controls group*



- > History
- > e-logbook renovation
  - Motivation
  - Navigation tree
  - e-logbook manager
  - Coming soon
  - Putting it all together
- > Some facts, thoughts & conclusions

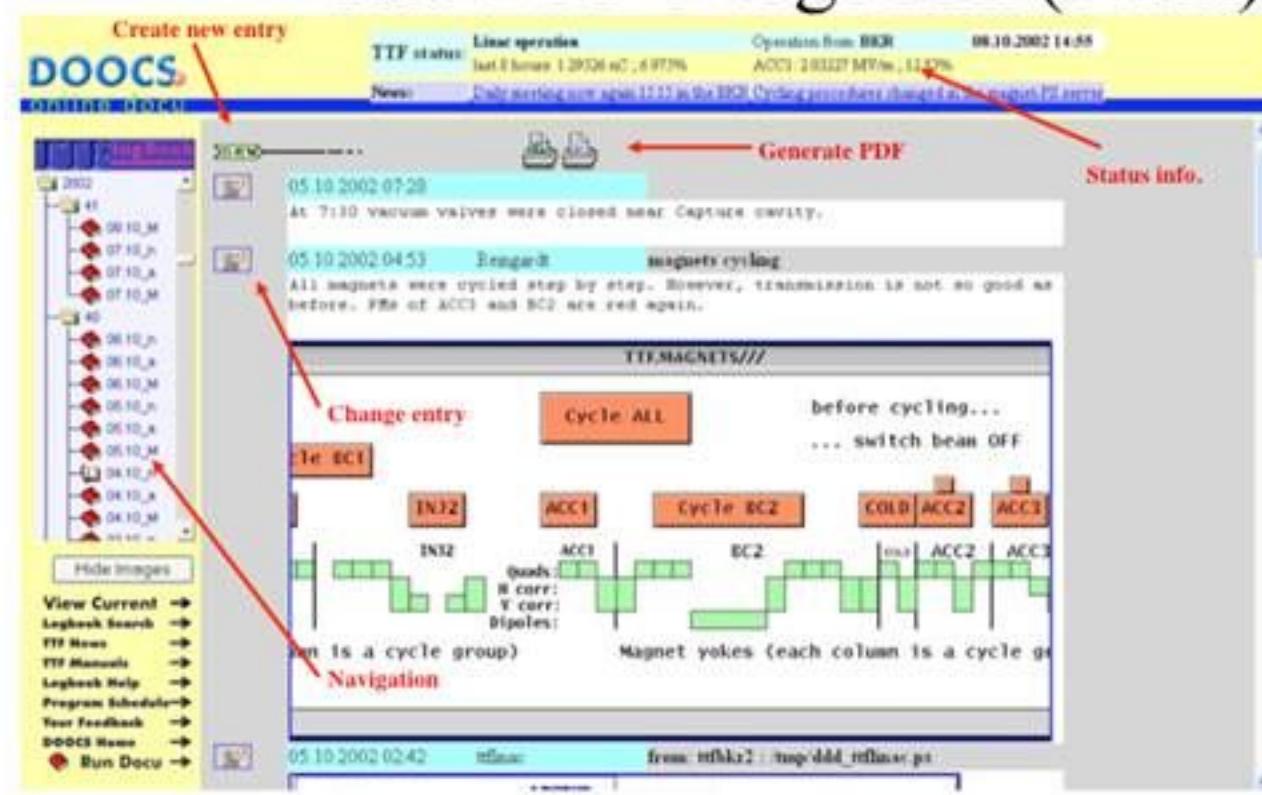


# History

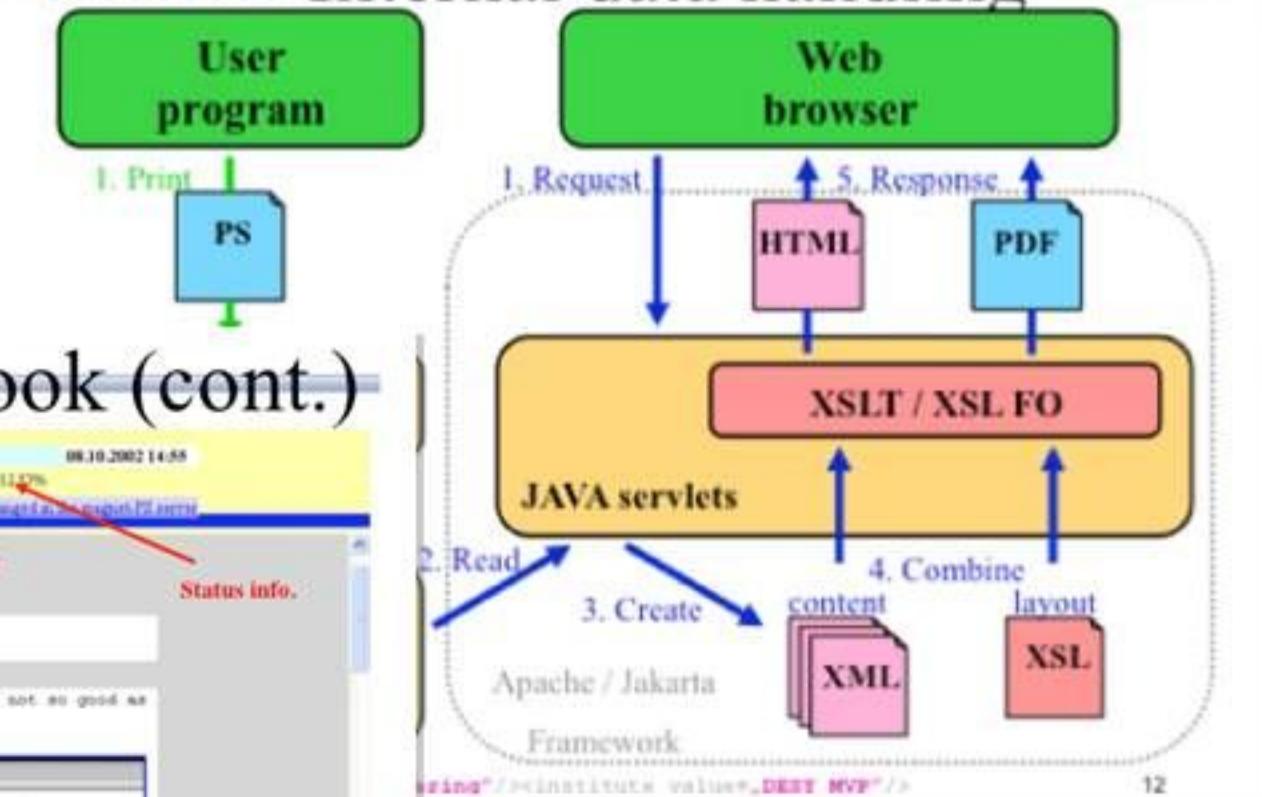
## Requirements

- Simplicity:  
Input must be self describing and easy
- Availability:

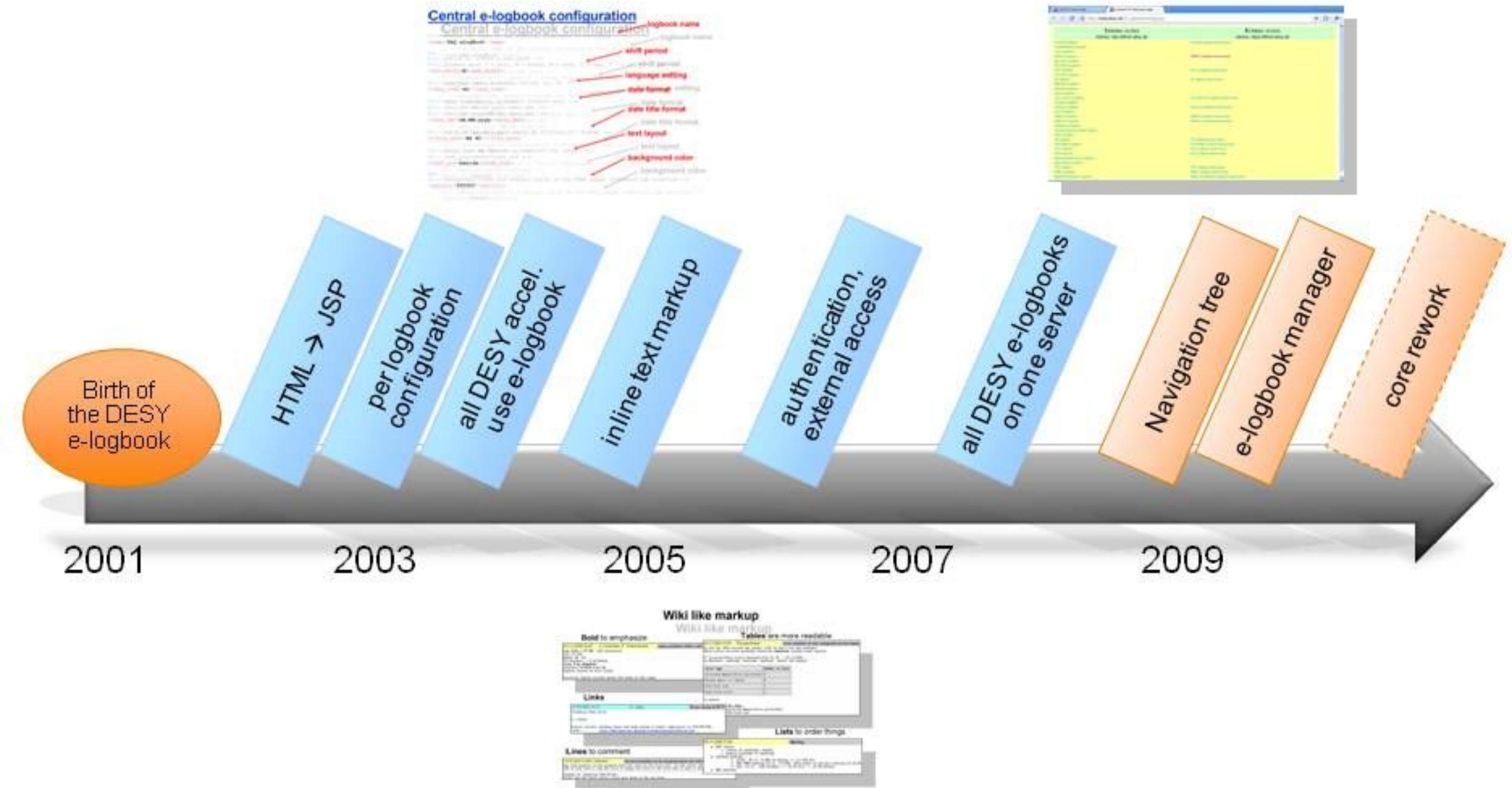
## The TTF e-logbook (cont.)



## Internal data handling



# History



# e-logbook renovation: Motivation

On **ICALPECS 2003** I gave the outlook:

**DOOCS** The future **DESY**

**To be done:**

- Make common e-logbook parts a **Web ARchive (WAR file)**:  
Easy and fast deployment, upgrades and maintenance
- **Expand parameterization** (for configuration file):  
More flexibility per e-logbook, limit number of XSL files
- **Implement security, authentication, authorization** into e-logbook WAR:  
Enable collaborating partners to access on side info.
- Allow personalization of user specific desires

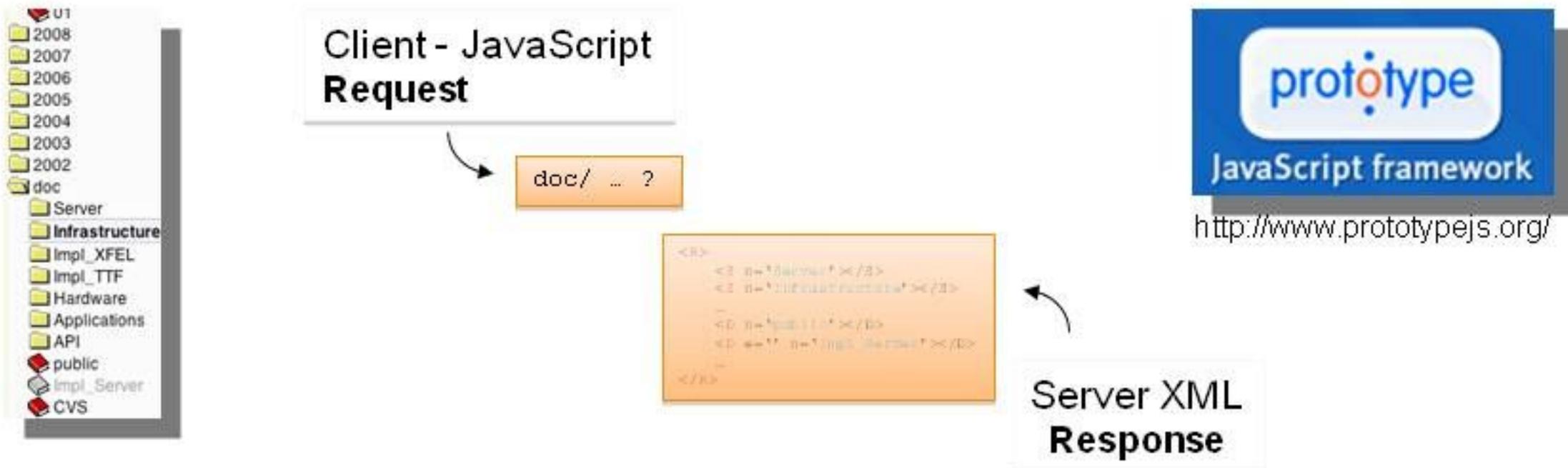
15 Oct. 2003 ICALPECS 2003 Gyeongju, Korea R. Kammering

Deutsches Elektronen-Synchrotron  
in der Helmholtz-Gemeinschaft



# e-logbook renovation: Navigation Tree

Replaced **Java Applet** navigation tree by a **AJAX based**



- much better user experience
- dynamic reload of server side changes
- synchronization of content view and navigation tree

# e-logbook renovation: e-logbook manager

Manage all logic in **one manager application**

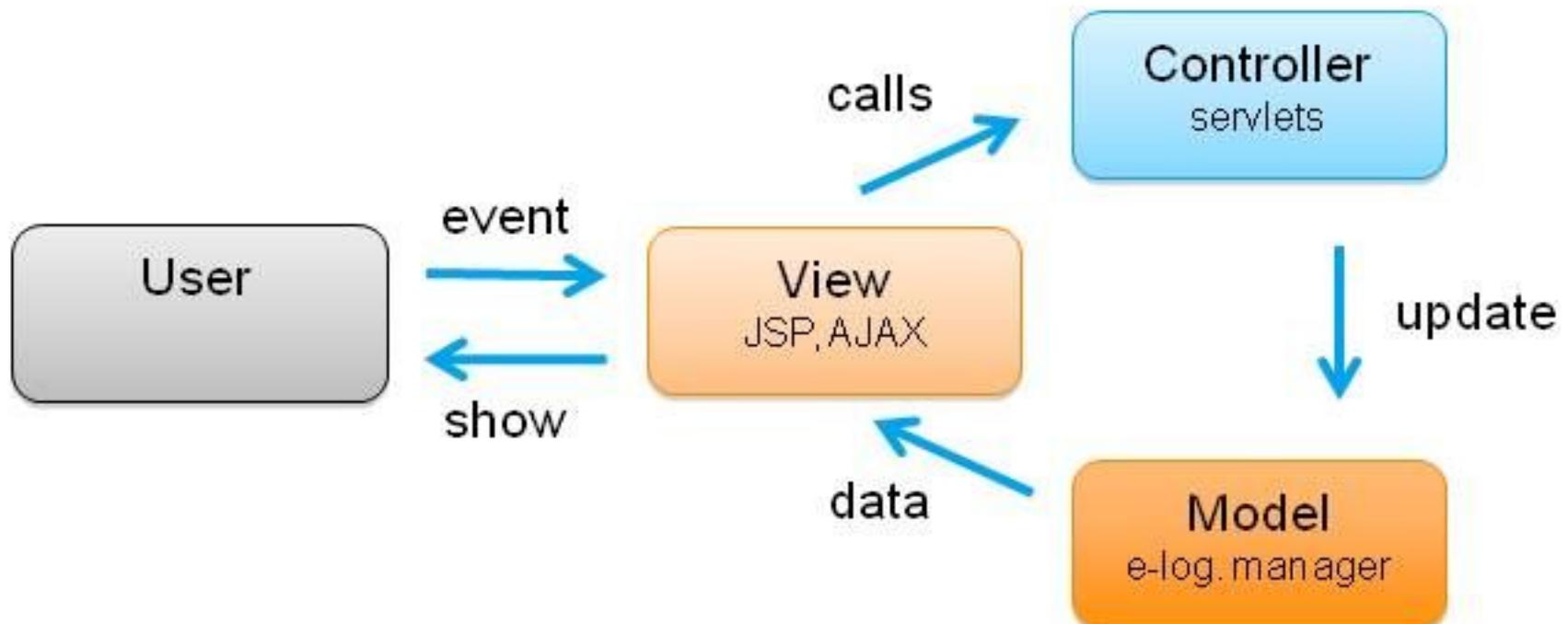
The screenshot shows the 'e-logbook Manager' interface. At the top, it displays the date and time: 'Tue Sep 29 2009 14:56:07 GMT+0200 (CEST)'. The left side features a vertical sidebar with a list of navigation items: 'Extra', '3G9Hzelog', '3G9Hzelog-sec', 'CALICEelog', 'CALICEelog-sec', 'CATHODEelog', 'CTAelog', 'DBW4elog', 'DOC', 'DOOCS-public', and 'DOOCSeolog'. A blue vertical bar is positioned on the right side of the sidebar.

The screenshot shows a configuration page for the 'TTFelog' section. It lists several jobs: 'Cron job', 'Exec job', 'Exec job', 'Exec job', 'Exec job', and 'Event job'. Each job entry includes a status indicator ('on') and a 'pause job' button. Below the jobs, there is a 'Config' section with a 'reload' button and a 'create database' button. At the bottom, there are 'reload logbook' and 'visit' buttons. A large orange oval highlights the 'Jobs' section, and a smaller orange oval highlights the 'Config' section.

- > manage navigation trees (create, serve, ...)
- > periodic job scheduler (Open source project: Quartz <http://www.opensymphony.com/quartz/>)
- > front end for e-logbook configuration

# e-logbook renovation: Coming soon

## Refactoring the e-logbook core in the Model View Controller sense



- **View:** JSP, AJAX receives user input, displays data
- **Controller:** Servlets control access, update the model
- **Model:** e-logbook manager keeps state, manages configurations

# e-logbook renovation: Putting it all together

This changes will enable us to:

- **personalize** e-logbooks completely by use of the **configuration file**
  - **create new** e-logbook **instances** with a click
  - **install** a **new** e-logbook **server** by simply deploying the war file
  - have **one clean entrance** to the e-logbook (needed for SSO)
- Make the e-logbook one clean, monolithic web application



# Some facts, thoughts & conclusions

**Requests** for copies of the e-logbook are **still not ending**  
more than 20 institutes requested copies



## Some facts, thoughts & conclusions

- > **Interest** for the DESY e-logbook **is not ending**
- > Absolutely **mandatory tool** in every accelerator facility (why isn't IT providing this service?)
- > **Used beyond** the original **scope** (group book, help system, ...)
  - Many requests for support & maintenance (**~1 mail/day**)
  - **Workload** produced by the e-logbook still **high**
  - **Easy packaging, deployment and maintainability** is of major importance



## Some facts, thoughts & conclusions

- > Some parts are in need of consultation
- > We did a big step in this direction

It started as a **test** for **web technology** in the accelerator sector:

The slide is titled "Conclusions" and is dated "PCaPAC 2002". It contains two bullet points:

- The e-logbook is a promising trial to work with this modern web technologies.
- Interfacing with other web services from particle accelerators

# Thank you for your attention!

I'll be back in **2017**