

### **R2E Review Summary**

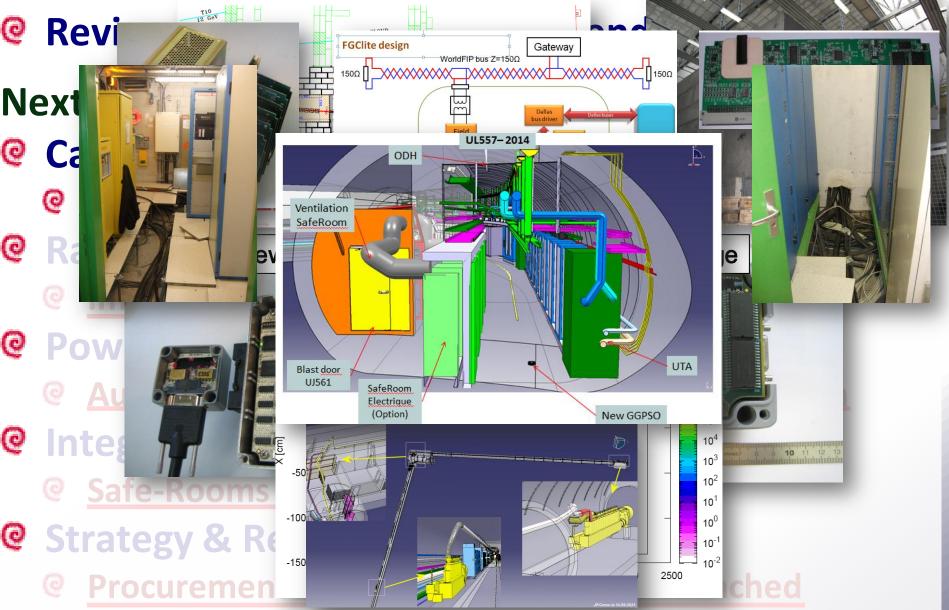






# **R2E Review Summary**







#### The Time-Line

Relocation)

Add. Shielding +

R2E

Mitigation Plan &

Structure

New

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**Detailed Analysis** 

**Medium Term Actions** 

Easy)





**Integration** Power-Converter Review + R2E Workshop **Planning Monitoring** Project Proposa Patch-Solutions Rad.Tests

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**Anticipated Actions** 

xMasBreak Actions

R&Ds

**Additional Patches** 

LS1: Shielding Relocation 600A Aux. QPS nanoFIP FGClite? , etc.

Power-Converters and/or **SCLs** Tunnel-Equipment

**CNGS Incident** 

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Short-Term Actions (Safety + Study Group R2E

2009

2E

2010

201

2nd Mitigation Actions

2012

2013

2014

2008



#### **Additional Points Raised**



- Wigh-Priority on follow-up of failures during 2012
- Destructive tests at PSI and mixed-field facilities -> focus on critical components + heavy-ion tests
- TID effects as 2<sup>nd</sup> priority -> to be considered as much as possible in the design (safety factor kept)
- Regular internal/external design reviews for all new developments (simple format!)
- Tracing of component purchase and usage
- Occumentation of test results
- Failure budget -> 'average time to failure'
- External companies can/will help (procedures!)
- Reinforce testing teams (internal/external)



## Conclusion



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- **Many Thanks**
- A lot of work

It needs your help