



Safety through Training – Engineering – Consulting

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The Simulator Centre of KSG|GfS - A centre of service and competence!

- Task: Simulator Training for 9 Nuclear Power Plants
- First Courses: 1977
- Staff: 120 Employees (40 certified instructors)
- Facilities:
 - 7 simulators
 - 1 reactor glass model
 - 2 HPO training facilities
- Courses: > 300 /year (4-5-day)
- Participants: > 1.400 /year
- Investment: > 250 Mio €
- Budget: ca. 26 Mio € /year
- Certificate: DIN EN ISO 9001:2015



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The Simulator Centre of KSG|GfS - Owned by the leading utilities!

41,66 % E.ON Kernkraft GmbH



30,73 % RWE Power Aktiengesellschaft



19,02 % EnBW Energie Baden-Württemberg AG



6,54 % Vattenfall Europe Nuclear Energy GmbH



2,05 % N.V. EPZ Kraftwerk Borssele (NL)



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The Simulator Centre of KSG|GfS - Training Facilities



Simulator Training

- 7 plant-specific simulators for 9 nuclear power plants



Reactor Glass Model Training

- Reconstruction of a PWR in 1:10 scale



HPO Training

- Hot-water systems as process training equipment

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Worldwide unique – the Reactor Glass Model!



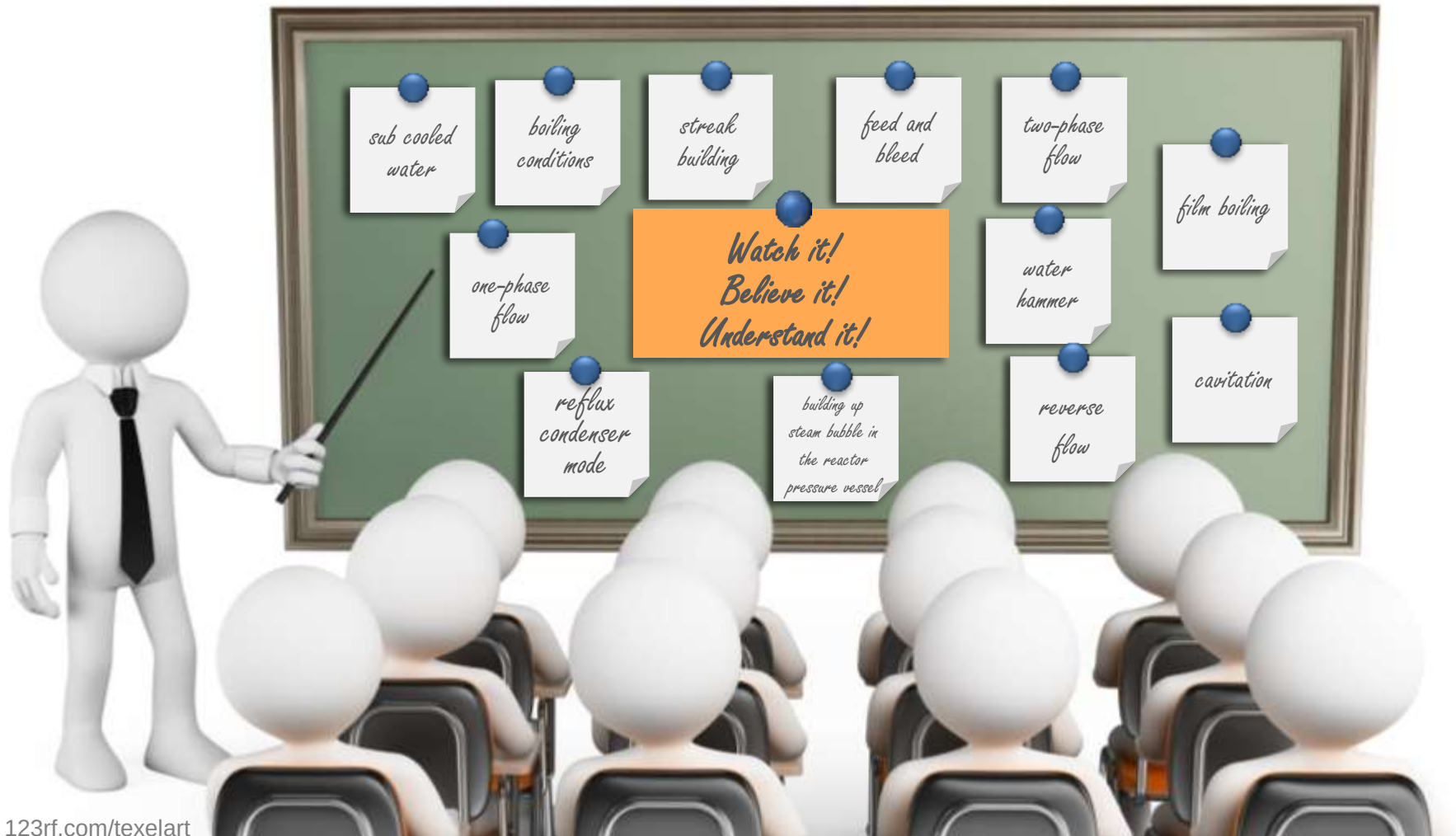
glass model classes

- in 2-5 days specific hydraulics courses
- or combined with simulator training
- theory and exercise
- with up to 20 training scenarios
- highlighting the TMI-accident



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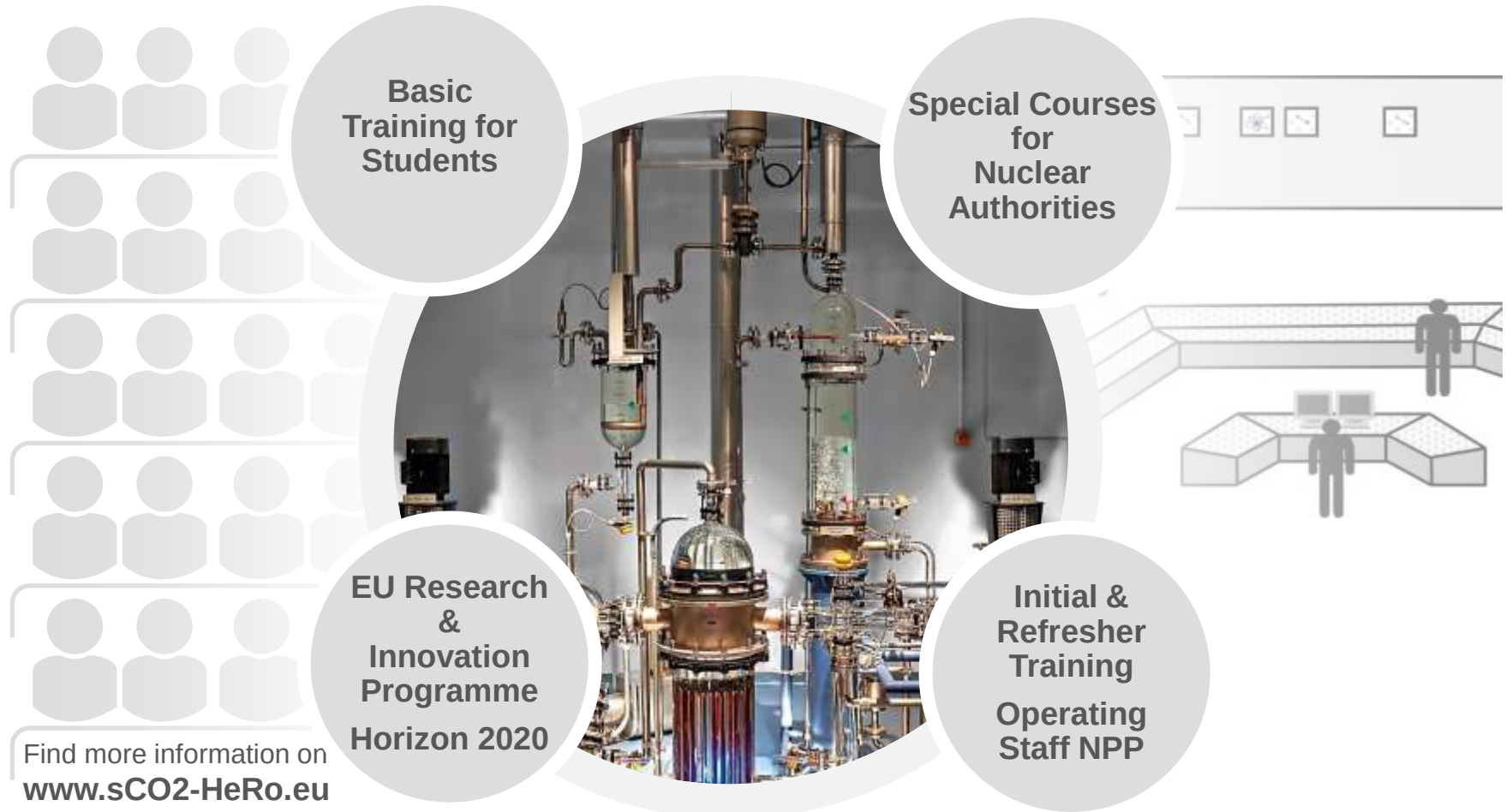
Thermohydraulic phenomena are difficult to explain!



123rf.com/texelsart

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Nuclear Training – A combination of Simulator and Reactor Glass Model!



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Reactor Glass Model – Blended Learning Training Concepts

- **Videos (different camera views) at different levels (Basic – Medium – Advanced)**
- **Simulation capabilities (Selection of parameters, trend curves)**
- **Tutorials Thermohydraulic Phenomena**
- **Webinar with Instructor**
- **Live demonstrations**
- **On-site Training**



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Summary

Das Simulatorzentrum
KSG | GfS



Engineering
 Simulator Technology
 NPP Technology

Consulting
 Project Management
 Life-Cycle-Management

KWS
 Das Simulatorzentrum
KSG | GfS



Training
 Systems & Methods
 Human Performance
 Optimization

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**Reactor Glass Model
 Training**



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Contact



www.Simulatorzentrum.de