



ENSREG Contribution to Perfection, Confidence, Doubts and Trust

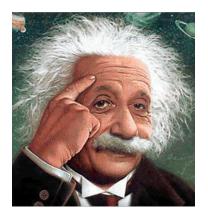
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Chairman of ENSREG

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It is only about a century since we know that

 $E = m c^2$





It is about 73 years since the first mass was converted into energy by man



The experimental apparatus with which Otto Hahn and Fritz Strassmann discovered nuclear fission in 1938 © Wikipedia



14,000 reactor/years of experience
in more than
560 power generating reactors
around the World.

Produced electricity is contributing to the well being of our Society



But, there is no free lunch!

Converting mass to energy is risky and not simple!



• We don't want the beneficial power production to become a nightmare!



Perfection

Perfection is, broadly, a state of completeness and flawlessness.

- To keep our nuclear power plants operate safely, we need **perfection**:
- Perfection in the design
- Perfection in the construction
- Perfection in the operation



Confidence

Confidence is generally described as a state of being certain either that a hypothesis or prediction is correct or that a chosen course of action is the best or most effective.

- Perfection we can achieve through confidence:
- Confidence in our knowledge
- Confidence about received information
- Confidence in our decisions and actions



Doubt

Doubt, a status between belief and disbelief, involves uncertainty or distrust or lack of sureness of an alleged fact, an action, a motive, or a decision.

- To assure proper confidence and avoid unjustified self-confidence of everybody involved in nuclear industry, a healthy doubt is needed.
- Regulators are doubting about operators
- Media is doubting about the whole industry



Trust

Trust is assured reliance on the character, ability, strength, or truth of someone or something.

 With sufficient assurances about perfection, enough trust will be there in the public



Regulators

DOUBT Media **DOUBT Operators TRUST Public CONFIDENCE PERFECTION ELECTRICITY**

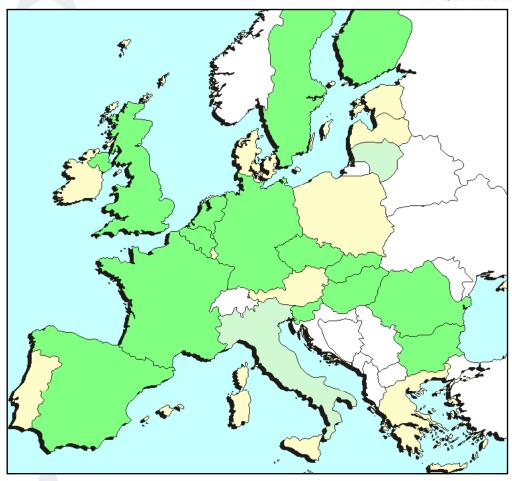


What is regulation all about?

- The regulators are permanently doubting about the perfection of operators.
- By that operators are forced to improve confidence and perfection
- With the perfection the mass could be transformed into energy safely
- With such permanent healthy challenging process a trust can be created in public about this source of energy





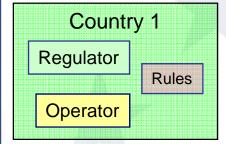


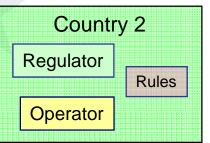
- Almost 150 operating NPPs in 14 EU member countries,
- producing ~1/3 of all electricity in EU

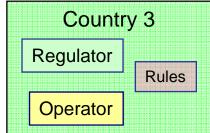


Before 2000

E. Commission DGTREN



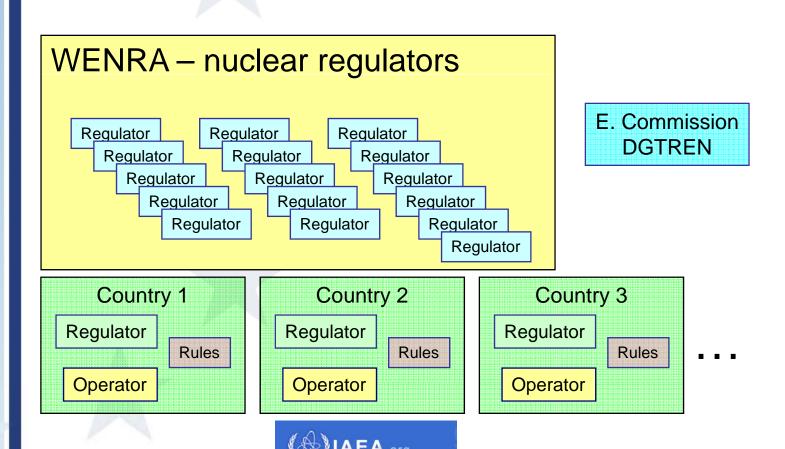






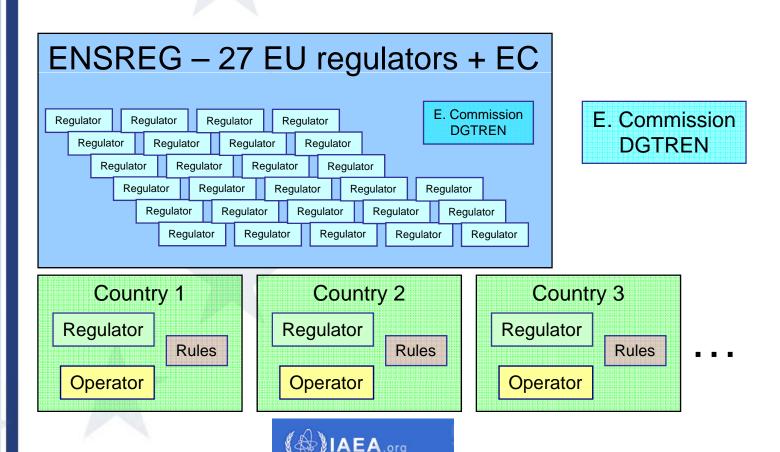


WENRA – a voluntary club





ENSREG – politically established in 2007





What is now better?

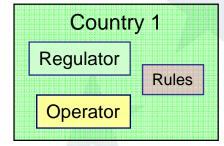
WENRA - nuclear regulators

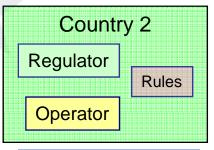
ENSREG – 27 EU regulators + EC

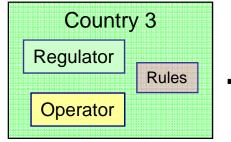
WENRA Reference Levels

E. Commission DGTREN

Nuclear Safety Directive, RW Directive, Stress Tests











What is now better?

- Better communication between regulators
- Better understanding between the Commission and the States
- Gradual harmonisation of rules
- Simpler environment for operators
- More about the work of ENSREG in next presentations



A Challenge!

- Lack of Perfection
- Trust is gone
- What is with the Confidence?
- Doubts are very high!



We have a lot to do to regain them all!