

AI?

- definition dates back to 50's
- big data and predictive analysis
- *machine learning* (= supervised by human)
- *deep learning* (= neural network)
- *chatbot*

imagine the D&D of a NPP with AI

- characterization and radiological mapping
- analysis and decision
- the work
- return to the green field

imagine the D&D of a NPP with AI

- **characterization and radiological mapping**
- huge amount of data from operation
 - *machine reading*
- very expensive, take time, limited view, ...
 - *AI calculation, 3D view at $T=0$ and prediction for the future*
 - *robot, driven by AI to scrap oxyde's surface*
 - *lab measurement driven by AI*
 - *interpretation of measurement*

imagine the D&D of a NPP with AI

- **analysis and decision**
- finding the better balance given the criteria
 - *AI to support the decisions*

imagine the D&D of a NPP with AI

- **decommissioning in practice**
- *to be performed by robot*
- opening the lid : human oversight needed



imagine the D&D of a NPP with AI

- **back to the green field**
- a graded approach: drone then land robot/human for odd points
- The almost 0 man.mSv D&D !



imagine the D&D of a NPP with AI

- what if AI makes mistake?
- trust in the decision? limits to be lay down
- > involving the RP professionals in implementing the RP practices, xp, vocabulary!
- > continue to collect experience and transfer it
- toward a new paradigm : an utopia or a distopia?