Chernobyl NPP Decommissioning Visualization Centre



Cooperation History



2006

- Proposal of the Norwegian government
- Decision to establish the CDVC
- Cooperation Agreement IFE ChNPP

2007

- Intergovernmental Agreement (the Kingdom of Norway and Ukraine) International Technical Assistance project
 2012 2013
- The Agreement was signed on 30 November 2012
- Ratified in June 2013

<mark>2015</mark>

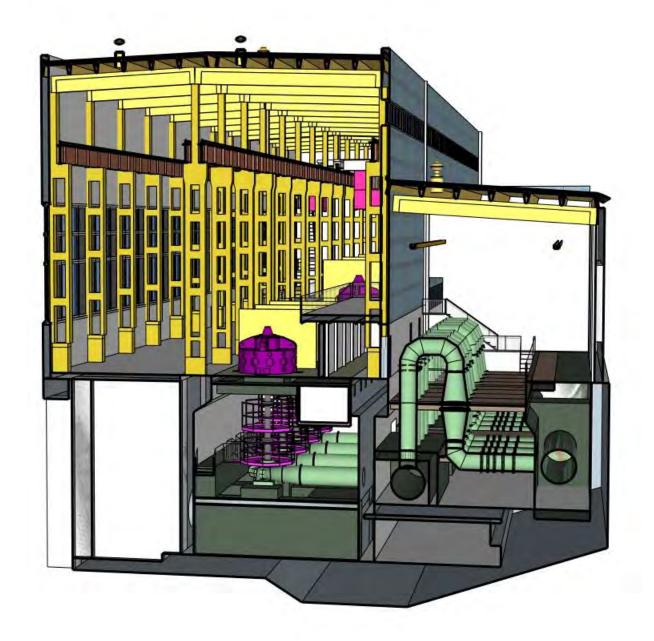
registered in Ukraine as International Technical Assistance project

<mark>2016</mark>

- Installation of the CDVC hardware and software, staff training, acceptance tests
- Pilot-industrial operation

CDVC functions

- Creation of ChNPP 3D-models
- Creation of 3D-models of radiation fields
- Creation of scenarios in virtual environment
- Visualization of scenarios
 - Use of visualizations and models for ChNPP purposes



Usage of results

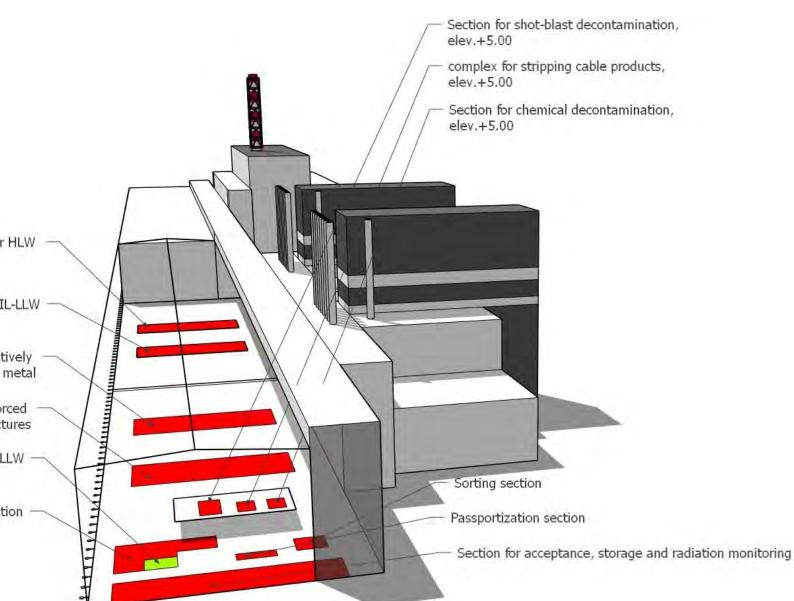
3D-models of ChNPP facilities and radiation fields, scenarios in virtual reality and visualizations for:

- organization and creation of facility for HLW knowledge
- Container-type storage facility for LIL-LLW
 presentation of information
- planning and execution of workSted metal
- storage of information for decontamination of reinforced generations
 Section for packing LIL-LLW –
- efficiency improvement of Fragmentation section — personnel training for work

 execution

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Software

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SketchUp SketchUp

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• Creating models of 3D-objects

Placement of models in virtual reality.

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- Creation of work execution procedures.
- Planning of using personnel in radioactive environments.

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Visualization of received scenarios.

What we get?

• Efficient presentation and usage of information

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Identification

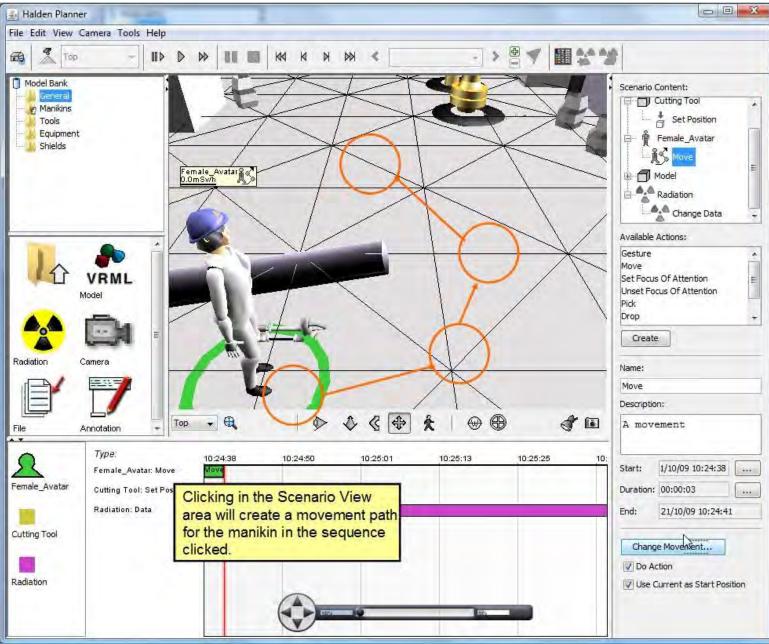
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- Sketches of objects
- Data of surveys
- Cross-sections of models
- Contamination cartograms
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Scenario preparation

- What process we wish to visualize?
- Step-by-step description of this process
- Export of 3D-models of objects
- Formation of surrounding situation
- Visualization of work sequence
- Modeling of radiation situation
- Assessment of received doses

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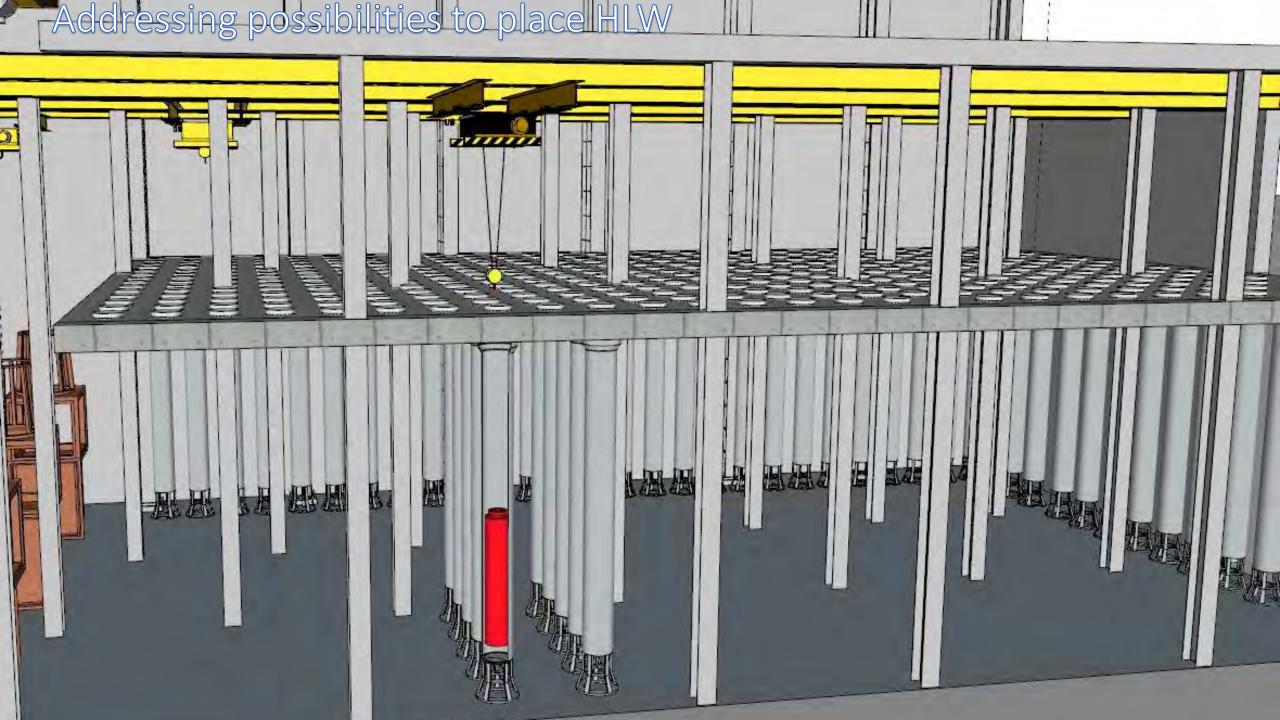


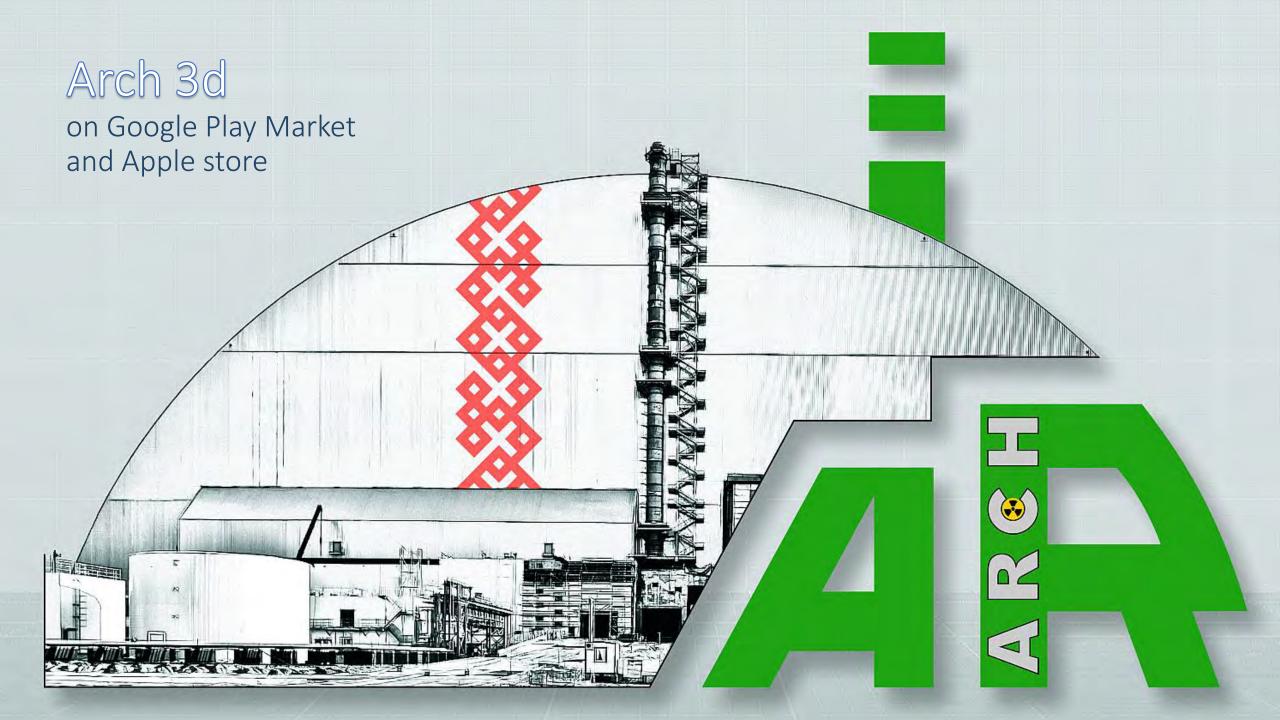
Pilot-industrial operation of CDVC. Main tasks.

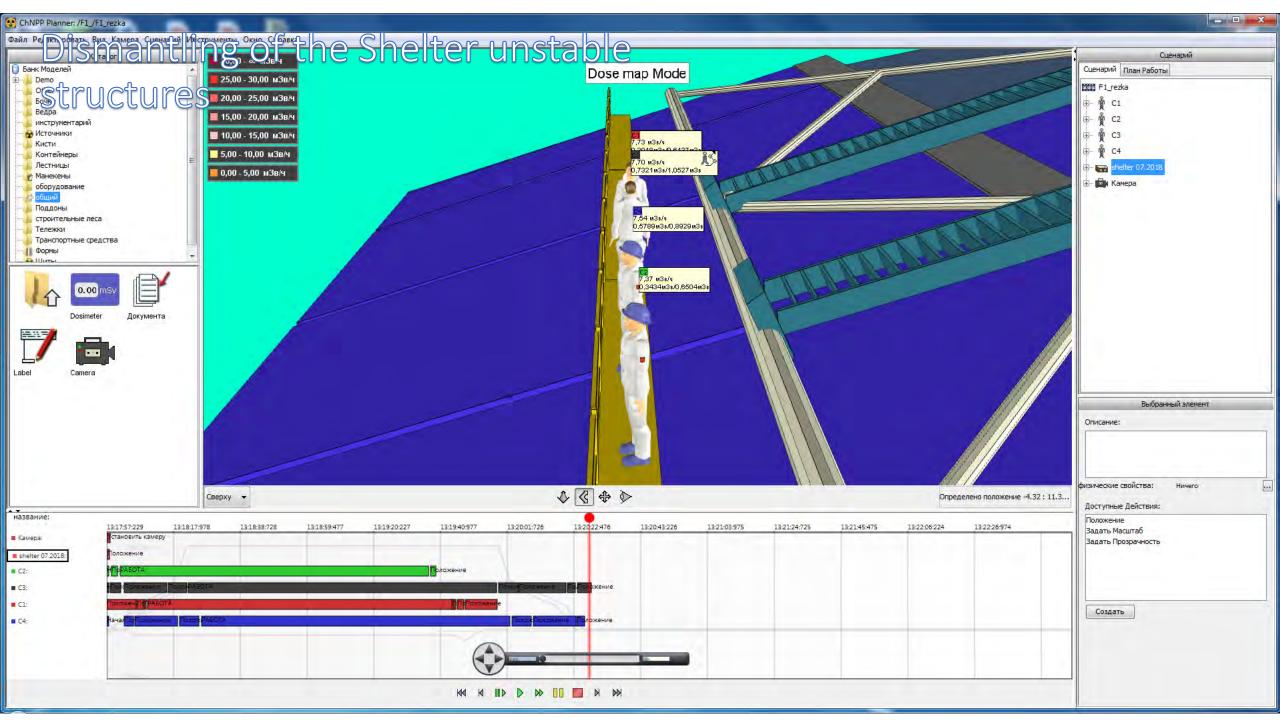
- Usage of CDVC equipment during CERS of ChNPP outside facilities.
- Building of 3D-models of ChNPP objects.
- Modeling of SNF transportation process.
- Shelter Object transformation into environmentally safe system.

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- Drill and improvement of working procedures.
- Study of software improvement issues.





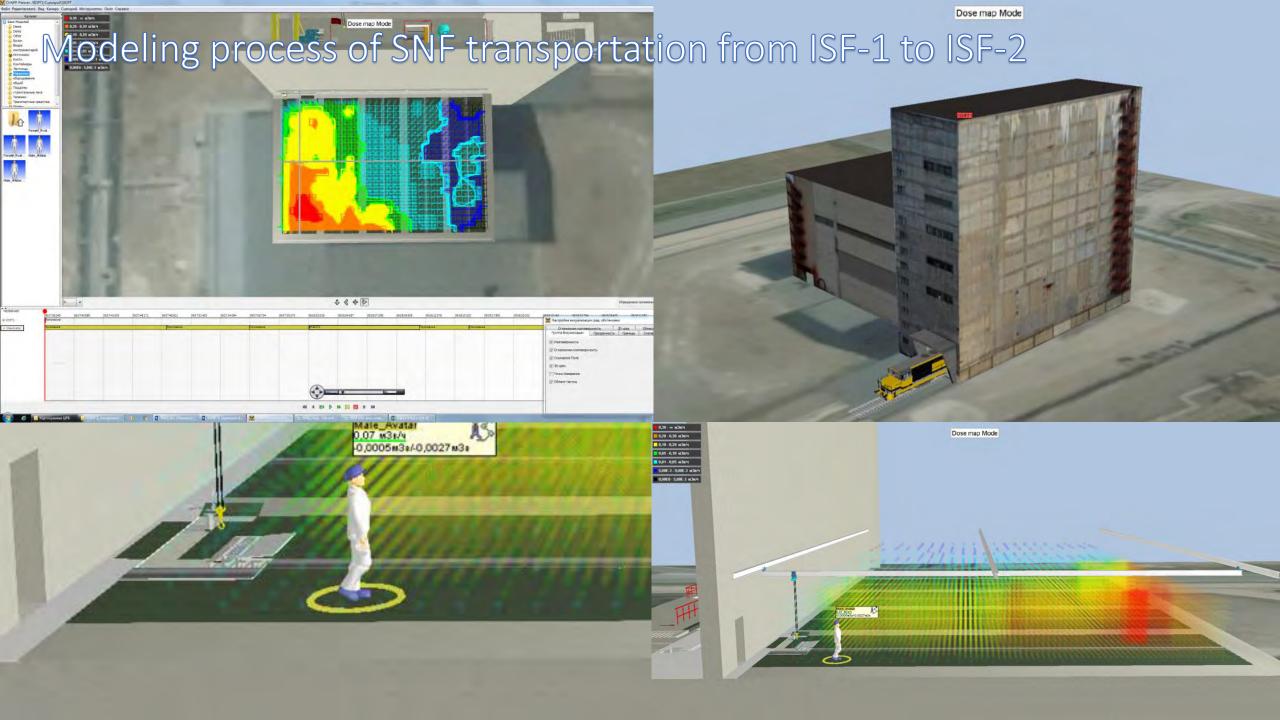


Modeling process of SNF transportation from ISF-1 to SF-2

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Thank you for your attention!