What’s the story?

Using art, stories and cultural heritage to preserve knowledge and memory

Hans Codée, Ewoud Verhoef
COVRA N.V.

OECD/NEA conference Constructing Memory
Verdun, France, 15 - 17 September 2014
ΔΥΣΣΕΙΑ

ἀνδρα μοι ἔννεπε, μοῦσα, πολύτροπον, ὡς μάλα πολλὰ πλάγχθη, ἐπεὶ Τροίης ἱερὸν πτολεῖθρον ἑπερσεὶν πολλῶν δ’ ἀνθρώπων ἰδεῖν ἁστεὰ καὶ νόον ἔγνω, πολλὰ δ’ ὁ γ’ ἐν πόντῳ πάθεν ἄλγεα ὅν κατὰ θυμόν, ἀρνύμενος ἢν τε ψυχὴν καὶ νόστου ἔταίρων.

ἀλλ’ οὐδ’ ὡς ἐτάρους ἐρρύσατο, ἰέμενὸς περ’ αὐτῶν γὰρ σφετέρησιν ἀτασθαλίσσιν ὀλοντο, νήπιοι, οἳ κατὰ βοῦς Ὑπερίονος Ἡλίοιο ἱσθιοῦν· αὐτάρ ὁ τοῖσιν ἀφείλετο νόστιμον ἤμαρ.

τῶν ἀμόθεν γε, θεά, θύγατερ Διός, εἰπὲ καὶ ἡμῖν.

ἐνθ’ ἄλλοι μὲν πάντες, ὦσι φύγον αἰπύν οἷοθεοῦ, οἶκοι ἔσαν, πόλεμόν τε πεφυγότες ἢδε θάλασσαν· τὸν δ’ ὦθον νόστου κεχρημένον ἢδε γυναικὸς νύμφῃ πότνι’ ἔρυκε Καλυψώ δία θεάων ἐν οἰκίσσι γλαφυροῖς, λιλαιομένη πόσιν εἶναι.

ἀλλ’ ὅτε δὴ ἔτος ἠλθε περιπλομένων ἐνιαυτῶν, τῷ οἷς ἐπεκλώσατο θεοὶ οἰκόωντε νέεσθαι εἰς Ἰθάκην, οὐδ’ ἐνθα πεφυγμένος ἦν ἀέθλων καὶ μετὰ οἶσι φίλοις. θεοὶ δ’ ἐλέαιρου ἀπαντεῖς

ODYSSEY, 800BC
Mesopotamian Contract, 2600BC
Vallon-Pont d’Arc, France, 32,000 - 30,000 BC
Coronation of Joséphine by Jacques-Luis David, 1805-07
1732

today
Storytelling is a way to pass on information over generations.

For radioactive waste the story is the Story of Time.
Radioactivity: a matter of time
time renders radioactive waste harmless
Radioactive Waste Management is Time Management
POSIVA time scheme

40 years’ programme – main milestones

- Test operation and commissioning
- Construction of disposal facility
- Construction of ONKALO and confirming investigations at Olkiluoto
- Site selection
- Site investigations
- VLJ-repositories
- KPA - Spent fuel storage
- Start disposal of spent fuel
- Application for operation license
- Application for construction license
- Decision-in-Principle by Government and Parliament
- Government’s decision on objectives and time schedule
- Start of feasibility studies for geologic disposal
COVRA time scheme

1984
- Need for action
- Disposal concept

2100
- Site selection

2115
- Construction

2130
- Operation

- Operational upgrade

- Closure
- Post-closure

Involved parties
- government
- both
- operator
- both
- regulator

Post-licensing
How long will we preserve this?

For ever ????

= foreseeable generations

Diamond Sutra, China 868
How long????

For ever ????

$\frac{t}{2}$ U-235 = 704 million years
For radioactive waste
the story also can be:

the Story of Art
SAFE = BEAUTIFUL

$$E = mc^2$$
Metamorphosis 2003-2103
by William Verstraeten
Art inside HABOG
Art inside HABOG
Art inside HABOG
Art inside HABOG
Art inside HABOG
Art inside HABOG
Story of Art is part of Technical Visit
the Story of Cultural Heritage
COVRA site: 21 ha

- HLW storage
- LILW storage
- NORM storage
- LILW treatment
- Office
Stacking LILW Containers

- temperature: only gradual change over the year
- air humidity: <60%
- security: well protected area
- availability: at least for 100 years
- costs: zero
Depot for Museums
the Art of Storage
Depot for Museums

many museum artefacts are > 400 years old (golden age)
More links: Art exhibitions
More links: Theatre performances

zeeland
nazomerfestival.nl
26 aug t/m 6 sept 2008

E = mc²
THEATRE (Quartet by Heiner Müller)
the Story of the Future: add Rituals
New depleted-U storage
Extension of Metamorphosis
A special effect: twice a year