Objective

The Modern2020 project aims at providing the means for developing and implementing an effective and efficient repository operational monitoring programme, taking into account the requirements of specific national programmes. The work allows advanced national radioactive waste disposal programmes to design monitoring systems suitable for deployment when repositories start operating in the next decade and supports less developed programmes and other stakeholders by illustrating how the national context can be taken into account in designing dedicated monitoring programmes tailored to their national needs. The work is established to understand what should be monitored within the frame of the wider safety cases and to provide methodology on how monitoring information can be used to support
to provide methodology on how monitoring information can be used to support
decision making and to plan for responding to monitoring results. Research and
development work aims to improve and develop innovative repository monitoring
techniques (wireless data transmission, alternative power supply sources, new
sensors, geophysical methods) from the proof of feasibility stage to the technology
development and demonstration phase. Innovative technical solutions facilitate the
integration and flexibility of required monitoring components to ease the final
implementation and adaptation of the monitoring system. Full-scale in-situ
demonstrations of innovative monitoring techniques will further enhance the
knowledge on the operational implementation of specific disposal monitoring and will
demonstrate the performance of the state-of-the-art, the innovative techniques and
their comparison with conventional ones.
Finally, Modern2020 has the ambition to effectively engage local citizen stakeholders
in the R&D monitoring activity by involving them at an early stage in a repository
development programme in order to integrate their concerns and expectations into
monitoring programmes.

Programme(s)
Topic(s)

Call for proposal
NFRP-2014-2015

Funding Scheme
RIA - Research and Innovation action

Coordinator

AGENCE NATIONALE POUR LA GESTION DES DECHETS RADIOACTIFS

Address
1-7 Rue Jean Monnet - Parc De La Croix Blanche
92298 Chatenay Malabry
France

Activity type
Research Organisations

EU contribution
€ 881 387

Website
Contact the organisation

Participants (29)
<table>
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<th>Activity type</th>
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<td>Spain</td>
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<td>€ 130 000</td>
<td>Place Jean Millier 1 Tour Areva 92400 Courbevoie</td>
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<td>CESKE VYSOKE UCENI TECHNICKE V PRAZE</td>
<td>Czechia</td>
<td>€ 101 125</td>
<td>Jugoslavskych Partyzanu 1580/3 160 00 Praha</td>
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<td>€ 138 801,25</td>
<td>Eschenstrasse 55 31224 Peine</td>
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ELECTRICITE DE FRANCE

France
EU contribution
€ 44 405

Address
Avenue De Wagram 22
75008 Paris 08

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website Contact the organisation

AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L’ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE

Italy
EU contribution
€ 88 593,75

Address
Lungotevere Grande
Ammiraglio Thaon Di Revel 76
000196 Roma

Activity type
Research Organisations

Website Contact the organisation

EMPRESA NACIONAL DE RESIDUOS RADIOACTIVOS SA

Spain
EU contribution
€ 118 892

Address
Calle Emilio Vargas 7
28043 Madrid

Activity type
Other

Website Contact the organisation

EIDGENOEISSISCHE TECHNISCHE HOCHSCHULE ZUERICH

Switzerland
EU contribution
€ 0

Address
Raemistrasse 101
8092 Zuerich

Activity type
Higher or Secondary Education Establishments

Website Contact the organisation
European Underground Research Infrastructure for Disposal of Nuclear Waste in Clay Environment

- **Belgium**
- **EU contribution**: € 204 845,50
  - **Address**: Boeretang 200
  - **Activity type**: Research Organisations

GALSON SCIENCES LIMITED

- **United Kingdom**
- **EU contribution**: € 441 562,50
  - **Address**: Melton Road Grosvenor House 5
  - **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE

- **France**
- **EU contribution**: € 310 171
  - **Address**: Av De La Division Leclerc 31
  - **Activity type**: Research Organisations

NATIONALE GENOSSENSCHAFT FUER DIE LAGERUNG RADIOAKTIVER ABFAELLE

- **Switzerland**
- **EU contribution**: € 0
  - **Address**: Hardstrasse 73
  - **Activity type**: Private for-profit entities
5430 Wettingen (excluding Higher or Secondary Education Establishments)

Website Contact the organisation

---

NIDIA SRL

Italy
EU contribution
€ 97 575
Address
Corso Re Umberto 17
10121 Torino
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

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NUCLEAR RESEARCH AND CONSULTANCY GROUP

Netherlands
EU contribution
€ 298 399
Address
Westerduinweg 3
1755 LE Petten
Activity type
Other
Website Contact the organisation

---

NATIONALE INSTELLING VOOR RADIOACTIEF AFVAL EN VERRIJKTE SPLIJSTOFFEN

Belgium
EU contribution
€ 34 177
Address
Kunstlaan 14
1210 Saint-josse-ten-noode
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Contact the organisation

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POSIVA OY

Finland
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<td>United Kingdom</td>
<td>€ 42 521</td>
<td>Herdus House Ingwell Drive, Westlakes Science And Technology Park Moor Row, CA24 3HU Cumbria</td>
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<td>RADIOACTIVE WASTE MANAGEMENT FUNDING AND RESEARCH CENTER</td>
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<td>€ 0</td>
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Contact the organisation 🌐

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**ARQUIMEA INGENIERIA SL**

Spain

EU contribution

€ 228 675

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Website 🌐

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**Record number:** 196921

**Permalink:** https://cordis.europa.eu/project/id/662177/

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