and resources, prevent risks and pollution, and manage the tools required to manage the surface, subsurface and resource management.

Producing and distributing international cooperation information to support it focuses on public and private stakeholders, partnerships sustainable development resources with a view to applications for the management survey BRGM, the French geological, is France’s leading public new techniques and methodologies.

The BRGM’s scientific research is based on:

• Data funded projects subsidises the public service, using and developing national and international sources of (geo) scientific research and enabling the understanding of surface
• Subsidies from international cooperation and partnerships agreements with numerous countries.
• Funding from research activities.

Supporting public policies

Our public service operations cover all types of appraisals, monitoring and studies required to support public policies. Subsidies for public policies are shared according to the types of services, public authorities and other needs covered.

Four types of initiatives:

• Scientific activities, such as fundamental research and training, and developing knowledge.
• Carrying out methodological studies and drafting overviews aiming to transfer our expertise for the State.
• Planning on the methological research and supporting training. A national training programme for the managers supervising the BRGM defines the ground guidelines for new Future programme for public policies. Parallel to their training, BRGM technicians are assessed to ensure their expertise for the State.
• Research, the scientists and researchers are assessed by independent experts to ensure the different scientific judgements being offered jointly with the stakeholders involved under the sign of good practices.

International cooperation

The BRGM provides technical and legal expertise on geological infrastructure, mineral resources, natural risks, groundwater geothermal energy and the environment.

Target actions:

• Contributing to French cooperation policy by supporting the BRGM’s scientific activities, including development and other multi-national projects.
• Supporting national development policies by providing corporate services.
• Providing expertise and supporting the works of international geological bodies.

New policy

The French Government entrusted the BRGM with monitoring and preventing risks and other roles relating to forewarning strategies in 2006. It is now responsible for overseeing safety-related works.

• A specific service has been created within the BRGM, with one division in Orleans and four regional unitsjointly with the stakeholders involved under the sign of good practices.

Aims

• Scientific research: research and development; geology and improving our understanding of surface and subsurface phenomena.
• Expanding our knowledge of geology and improve our understanding of surface and subsurface phenomena.
• Providing training.

This committee considers the needs of central authorities and the different regional bodies after working with numerous regional

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AIMS

- Engaging with public and scientific communities to enhance awareness, understanding, and appreciation of Earth sciences.
- Providing high quality research and services to support policy-making and regional needs.
- Developing partnerships to enhance capacity in developing countries.
- Supporting sustainable development and climate change mitigation.

SCIENTIFIC RESEARCH

The BRGM conducts scientific research in order to support our knowledge of the Earth and improve our understanding of surface and subsurface phenomena. Our research addresses the challenges posed by climate change.

Supporting public policies

Our public service operations cover a range of areas, including monitoring and studies to support public policies. Services provided include risk management, environmental monitoring, and subsurface management.

Key roles

- Data-funded projects to understand geological processes and their impact on society, including risk assessment and monitoring.
- Partnerships with organisations to advance research on climate change and environmental issues.
- Submissions to French authorities to inform scientific advice on environmental issues.

Four types of initiatives:

- Observing the surface to understand processes and identify potential risks.
- Studying subsurface resources and environmental impacts.
- Responding to crisis situations and providing expertise.
- Supporting national and international initiatives.

International cooperation

The BRGM provides support for climate change research, including the development of new techniques and methodologies.

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The sustainable management of land and resources on local and regional spatial planning, integrating economic and social aspects. BRGM is renowned as a benchmark for the management and implementation of measures to address the complexity required to develop the subsurface for new uses, including those related to the energy transition. It is also involved in the development of science and technology to contribute to the better management of the subsurface, including the development of digital tools to improve understanding of the subsurface and its uses.

The challenge is to provide low-carbon energy solutions, which require knowledge of the subsurface, including geothermal energy and underground storage. In this context, BRGM has been working on the Geological Reference Programme (RGF) since 2011. The RGF provides support to the public and private sectors in the implementation of measures to develop underground storage and harness its potential as an energy resource (geothermal energy) and a space for energy storage (energy carriers, CO2 capture and storage). Similarly, reducing greenhouse gas emissions will require CO2 and other greenhouse gases to be confined underground, as an energy resource (geothermal energy) and a space for energy storage (energy carriers, CO2 capture and storage).

Research and innovation for the energy transition

The energy transition requires a shift towards low-carbon and more sustainable renewable and low-carbon energy sources, which can also reduce greenhouse gas emissions and improve energy efficiency. BRGM supports the development of underground space and underground storage. It emphasizes the role of geological surveys in understanding the subsurface and its potential as an energy resource (geothermal energy) and a space for energy storage (energy carriers, CO2 capture and storage).

Mineral resources and the circular economy

Contrasted with increasing pressures on mineral resources, BRGM is working for a responsible procurement and for a more circular economy. Access to mineral resources is a major issue, with the supply of several commodities and raw materials becoming critical and the circular economy gaining traction. BRGM has developed a strategy to support the development of a more circular economy and more responsible mining. It also designs innovative solutions to optimize the use of minerals, such as the development of new technologies for mineral extraction and processing, and the recycling of materials and products.
A public research establishment, committed to excellence and innovation, BRGM, the French geological survey, is France’s leading public research organisation in the field of geology and the protection of natural resources. BRGM’s scientific research is based on:

- Data funded projects facilitate the public service mission: providing scientific research to support programmes, public authorities and other state bodies cover the costs incurred.
- Partnership in scientific research: the BRGM defines the general targets and subsurface phenomena. It contributes to expand our knowledge of geology and improve our understanding of surface and subsurface, using and distributing knowledge.
- Test laboratories have been created within the BRGM, ensuring our methodological studies and testing of expertise, on different scales, including our research in society at large.
- BRGM’s results are based on: four types of initiatives: rapid research development, submitting proposals to funding bodies; providing corporate support programmes; partnerships with agencies (regions, Europe); supporting national development policies; and providing independent research to society at large.

For a Sustainable Earth

Geosciences - National school of applied geosciences - part of the BRGM research and training activities. The French Government entrusted the BRGM with the responsibility of expertise for the State and government agencies, training courses for companies, and training agreements with regional authorities and the different regional schools offering together with the stakeholders involved under the aegis of the BRGM mission.

International cooperation

The BRGM provides to its partners new and adapted information to support programmes, public authorities and other state bodies cover the costs incurred.

Target actions:– contributing to French cooperative policy, supporting the initiatives of the French Government and other multilateral funding bodies;– supporting national development policies;– providing corporate services; and– carrying out methodological studies and drafting overviews aiming to transfer knowledge acquired through studies and research.

Aims

- Supporting scientific research, a public service mission and expertise for the State;– providing training courses for companies and government agencies, training agreements with regional authorities and the different regional schools offering training agreements with regional authorities.

For a Sustainable Earth

Geosciences - National school of applied geosciences - part of the BRGM research and training activities.

European Union, Belgium, France, Switzerland, Morocco, Italy, Spain, UK, Germany, Sweden, China, USA, Africa, USA, Latin America, Middle East, Asia, Oceania, New Zealand, Republic of South Africa, China, USA, Mexico, Canada, Brazil, Argentina, Italy, Spain, UK, Germany, Sweden, Japan, India, China, USA, Africa, USA, Latin America, Middle East, Asia, Oceania, New Zealand, Republic of South Africa, China, USA, Mexico, Canada, Brazil, Argentina, Kenya, Nigeria, Namibia, Tanzania, Egypt.

The BRGM operates under the aegis of the Ministry for Higher Education, Research and Innovation, the French Ministry for the Ecological Transition and the French Ministry for Economy and Finance.

BRGM international activity in 2019

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The BRGM operates under the aegis of the Ministry for Higher Education, Research and Innovation, the French Ministry for the Ecological Transition and the French Ministry for Economy and Finance.
A public research establishment, the BRGM provides technical assistance in Earth Science for a Sustainable Earth. Its mission is to meet the challenges related to climate change. The BRGM’s scientific research is based on:

Scientific research
The BRGM conducts scientific research in order to support our knowledge of geology and improve our understanding of surface and subsurface phenomena. It is involved in ensuring the coherence of policies in response to climate change.

Supporting public policy
Our public service operations cover various types of approaches, monitoring and studies required to support public policy. Subsidiary for public service operations offers technical and consulting services, public authorities and other entities the costs incurred.

Four types of initiatives:
- observing the surface and subsurface, using and monitoring the natural phenomena;
- supporting the State in its role of expert for the State;
- passing on knowledge and expertise for the State; and
- providing independent research to society at large;

Target actions:
- contributing to French cooperation policy;
- supporting the activities of public authorities in other domestic and international funding bodies;
- supporting national development policy projects, providing corporate services in the field of international geological topics;

Nine sectors:
The French Government entrusted the BRGM with monitoring and preventing policies and other roles relating to the following areas in 2019, in the context of a “rapid research development” programme for overseeing safety-related works:

- a specific service has been created within the BRGM with one division in Orleans and four regional units in: Bordeaux, Amiens, Metz, Grenoble, Nancy and Orléans;

Quality certification:
The BRGM international certification ISO 56000-1 was obtained in 2019 for the “certified reference laboratory” approach as per industrial contracts.

Aims
Scientific research is based on the following key roles:

1. To fund projects subsidizing the public service and conducting research and development in the context of environmental and industrial missions in particular, in response to climate change.
2. To support public policy operations of the French Government in terms of geo-environmental monitoring, natural risks, groundwater, geothermal energy and biodiversity.
3. To support international cooperation, in particular with the BRGM’s institutional partners.

Geoscientists
- provide expertise to French authorities and the different regional stakeholders involved in the protection of the environment and use of geological infrastructures.

The BRGM’s scientific research is based on four types of initiatives:

• observing the surface and subsurface, using and monitoring the natural phenomena;
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• passing on knowledge and expertise for the State; and
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