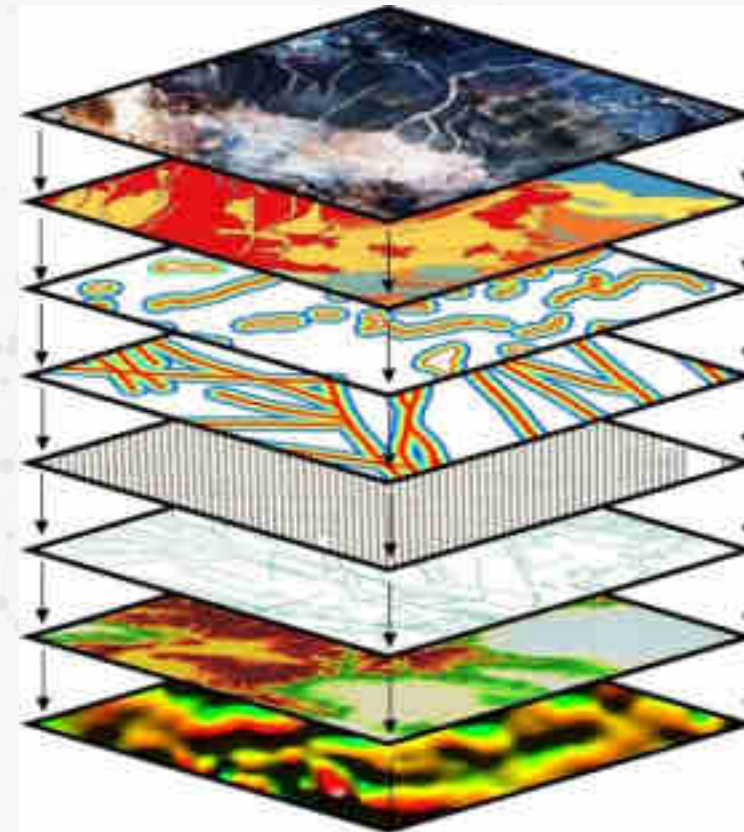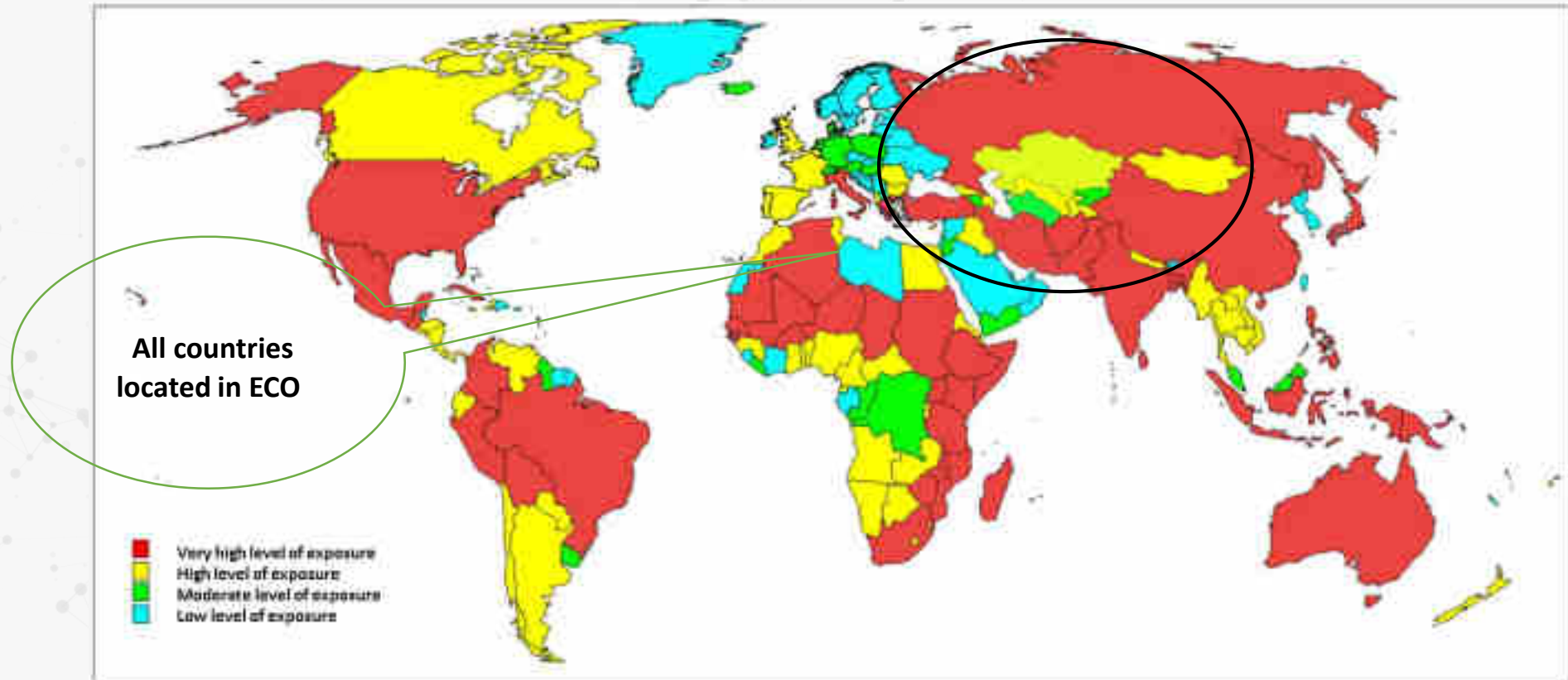**A Practical Roadmap for Digital Transformation and Smart Geological Exploration in ECO Member States**

Challenges of Geoscience Data:

- **High data diversity and volume**

- **heterogeneity and high noise levels**

- **very low speed and accuracy in analysis and reporting**

- **reliance on individual expertise and uncertainty in results.**
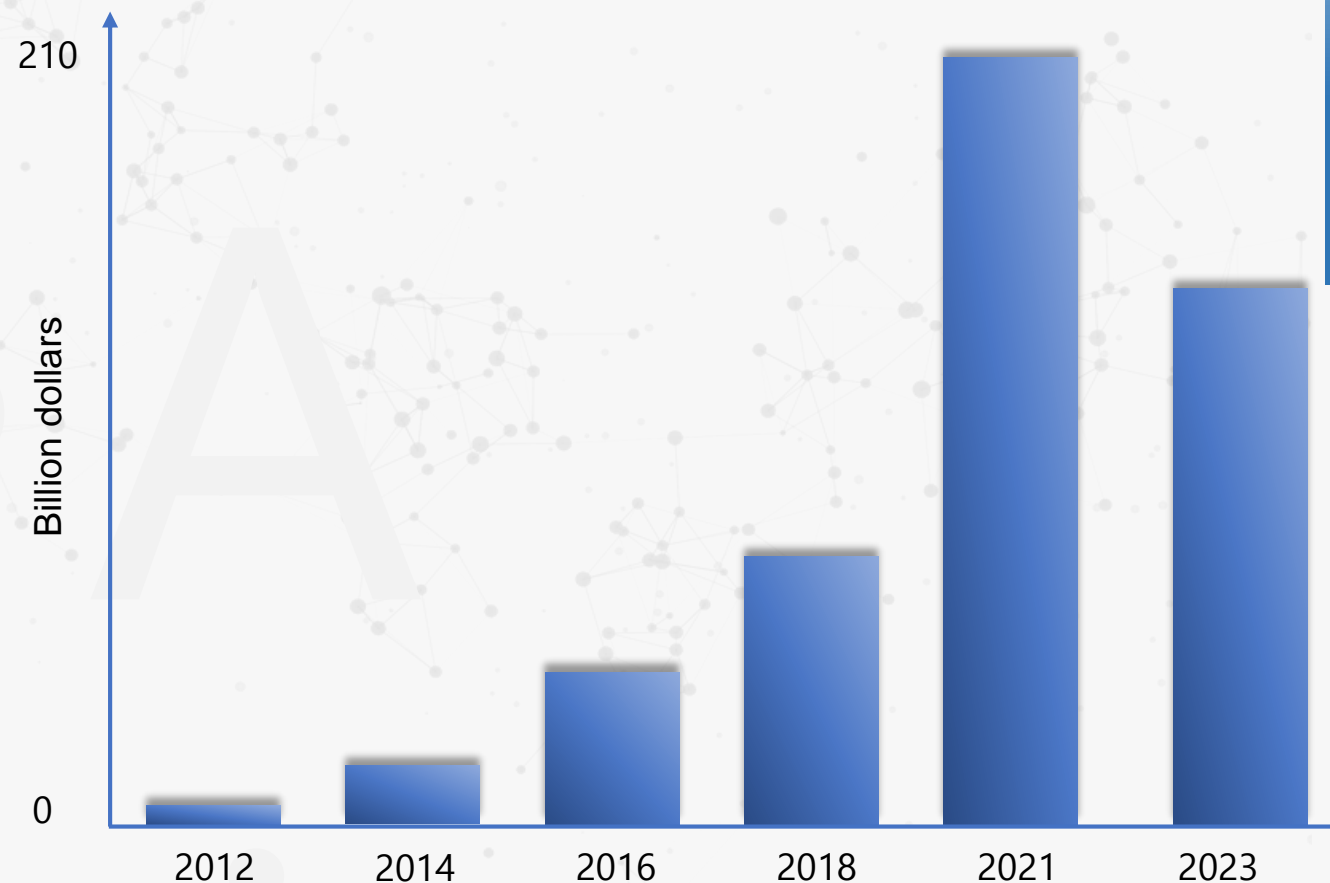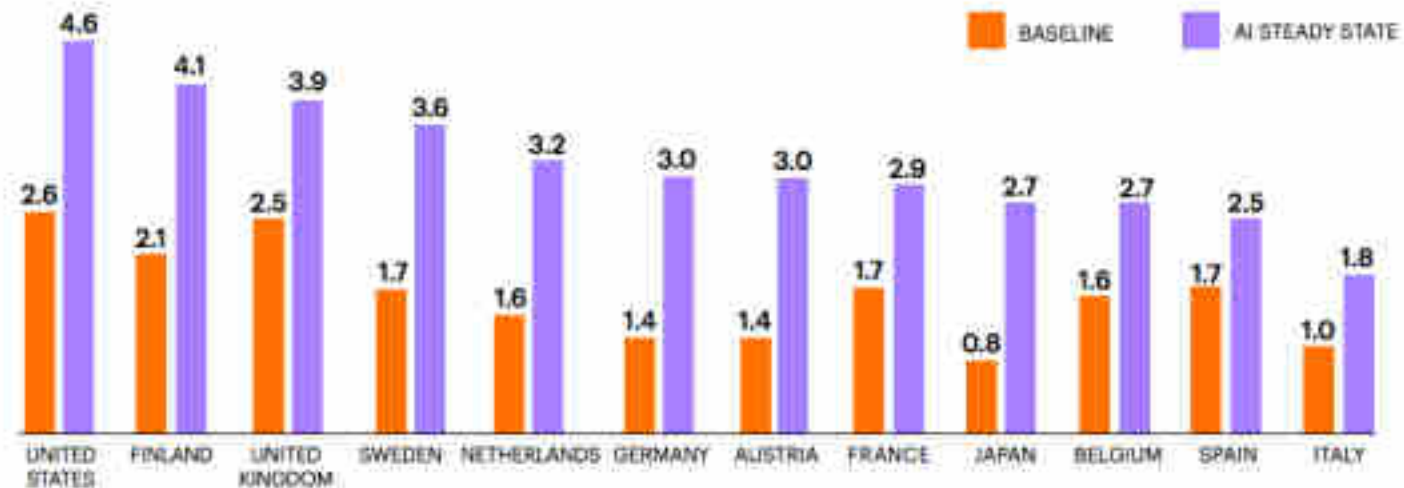
Relevance with ECO

All countries located in ECO

Very high level of exposure
High level of exposure
Moderate level of exposure
Low level of exposure

Global AI Transformation

- **30x growth in investment over the past decade**

- **$1 trillion market**
- **by 2030**

Billion dollars

210

0

2012   2014   2016   2018   2021   2023

Investment Trends of Countries in Artificial Intelligence – Seventh Development Plan Bill (88), p. 15

Global AI Transformation

AI has the potential to double annual economic growth rates in the countries that we analyzed in terms of gross value added (a close approximation of GDP).

BASELINE AI STEADY STATE

	BASELINE	AI STEADY STATE
UNITED STATES	2.6	4.6
FINLAND	2.1	4.1
UNITED KINGDOM	2.5	3.9
SWEDEN	1.7	3.6
NETHERLANDS	1.6	3.2
GERMANY	1.4	3.0
AUSTRIA	1.4	3.0
FRANCE	1.7	2.9
JAPAN	0.8	2.7
BELGIUM	1.6	2.7
SPAIN	1.7	2.5
ITALY	1.0	1.8

Real gross value added (GVA) (%, growth)

Source: Accenture and Frontier Economics

Doubling countries' GDP using artificial intelligence

Similar Platforms

Seequent Leapfrog Geo

- **Understanding and analyzing mineral potentials**

- **Infrastructure and hazard assessment**

- **3D analysis of mining areas**

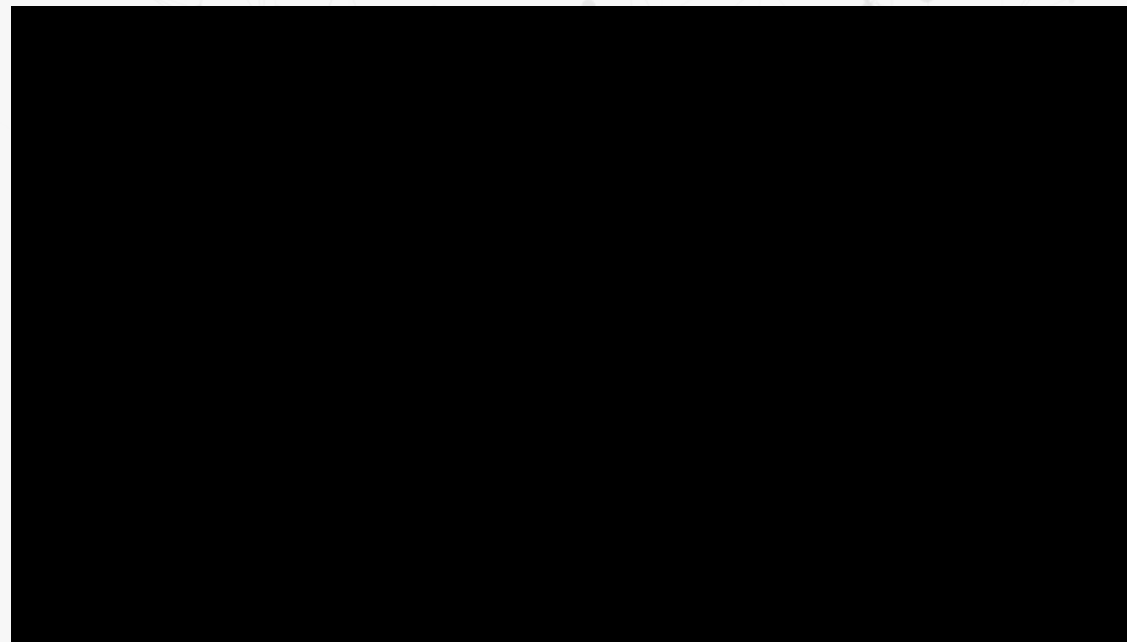# Similar Platforms

Viridien GeoVerse

- •Intelligent data modeling

- •Data analysis automation

- •Facilitating mineral exploration

Similar Platforms

GoldSpot Discoveries

- Discovery of the Queensway gold mine in Newfoundland

- Providing data analysis services to investors

- Facilitating mineral exploration
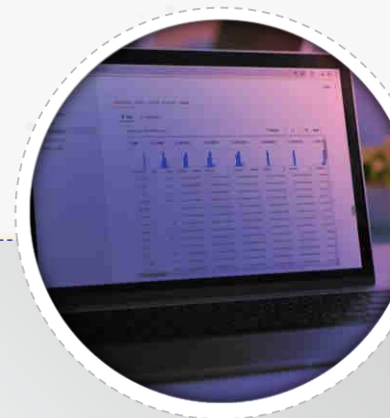
Geology AI transformation platform

AI Models

- AI model design dashboard
- AI based data modeling
- More accurate anomaly maps

Analysis & Report

- Statistical data analysis dashboards
- Automatic report tools
- Integration of processes and improved accuracy

Management & Visualization

- Organizing various types of data
- Visualization dashboards
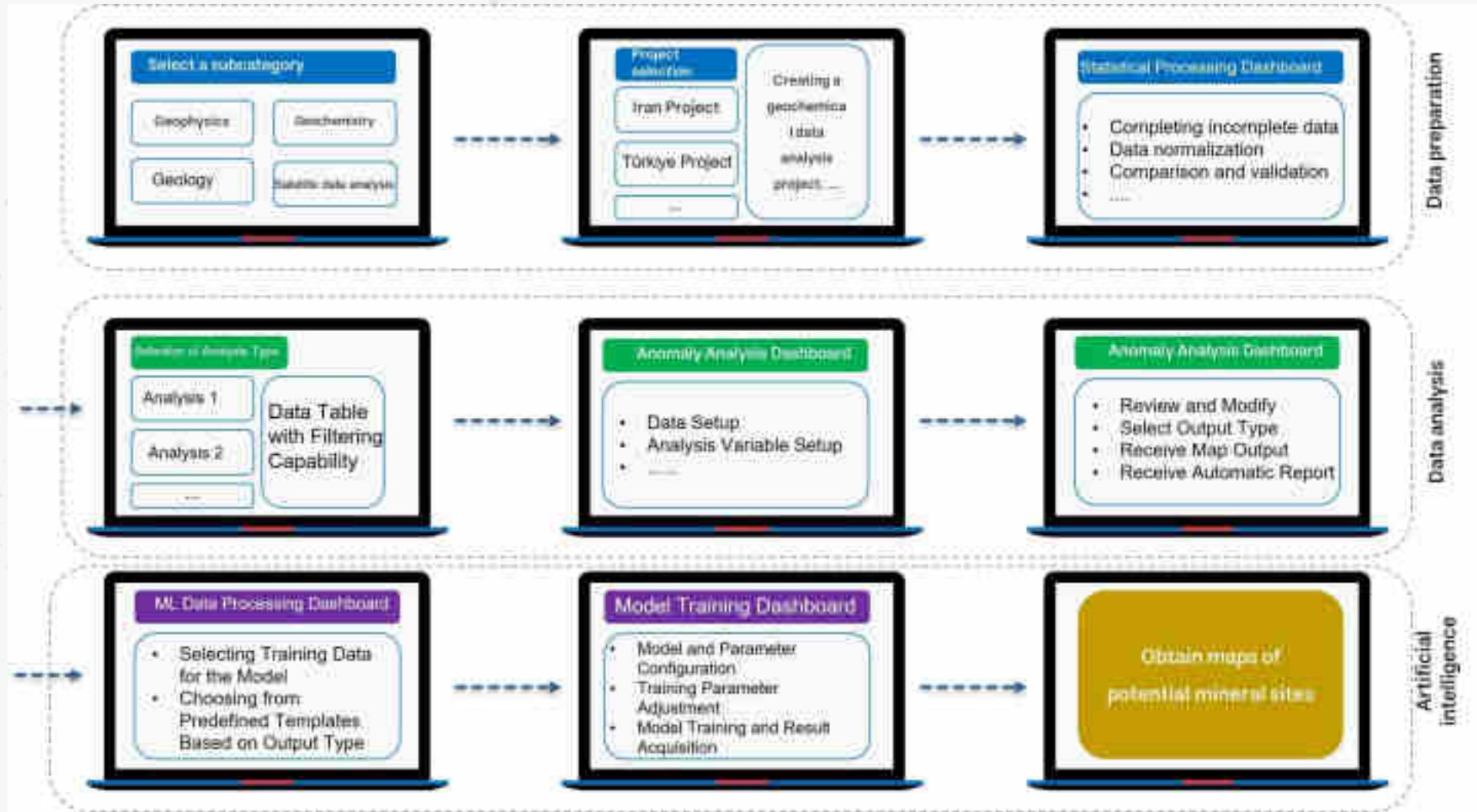- Automatic standardization

Geology AI transformation platform

ECO cooperation

Data preparation

Data analysis

Artificial intelligence

9

Geology AI transformation platform

- Up to 80% reduction in data analysis and reporting time

- Up to 50% reduction in geological process time

- Reduction in exploration operation costs
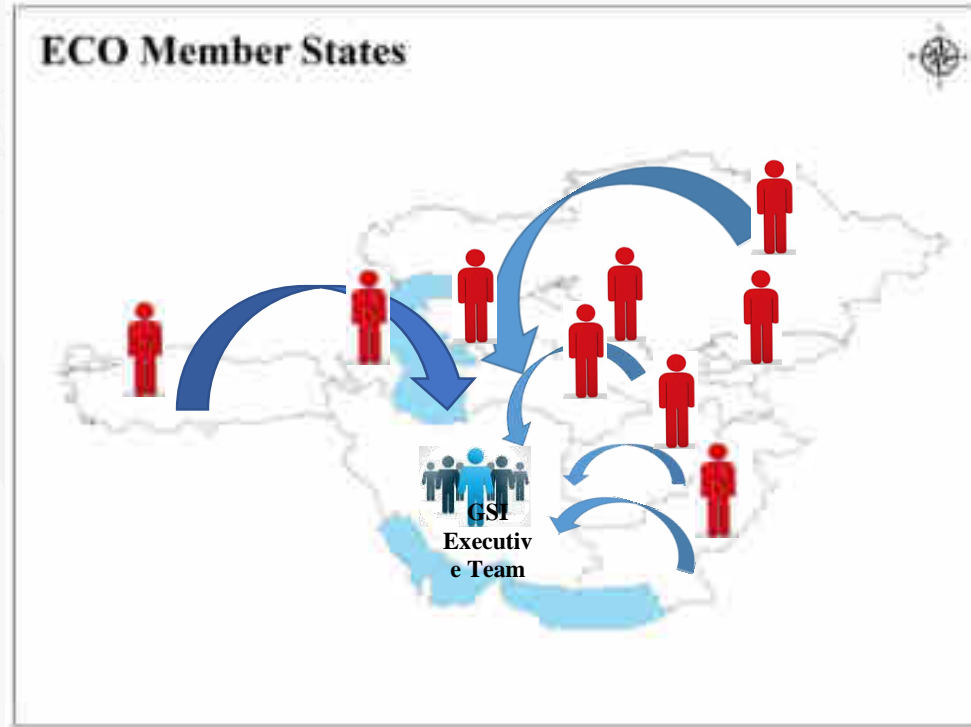
ECO cooperation

- National Focal Points of ECO Member States will interact with Executive Team in GSI on matters relating to data and information for the project.

- The Executive Team in GSI will create online interactive linkages using social media platforms as convenient for contacts in the framework of execution of the project.

ECO cooperation