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Europe's Copernicus Programme Completes 25 Years Its Impact So Far

Why In The News?

- The **25th Anniversary Of The Copernicus Programme** Is Being Celebrated At A Special Event In **Stockholm On 8 June**, Hosted By The European Commission, Under The Auspices Of The Swedish Presidency And In Partnership With The **European Space Agency And The Swedish National Space Agency**.

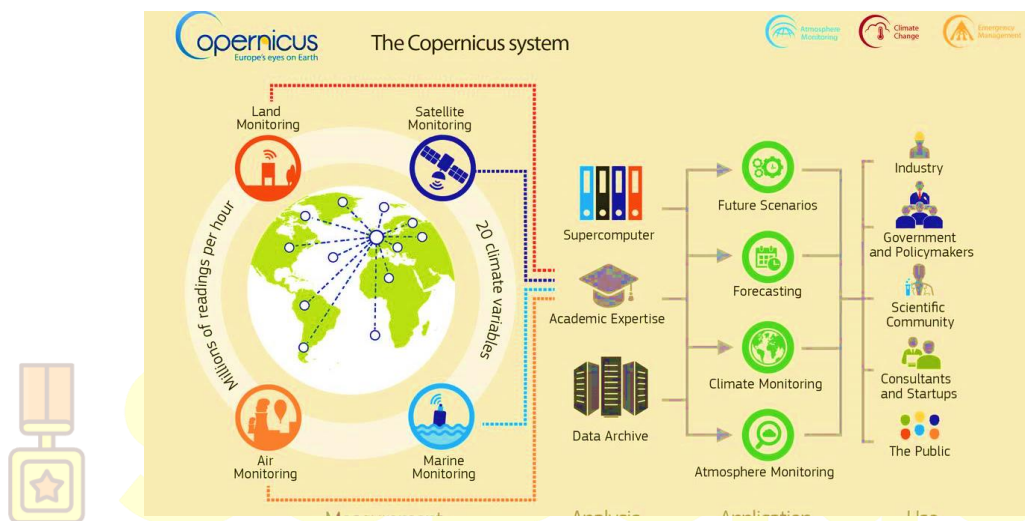
What Is Copernicus Programme?

- Named After The Scientist And Observer **Nicolaus Copernicus**, It Is The **Earth Observation Component Of The European Union Space Programme**, Managed By The **European Commission** And Implemented In Partnership With The EU Member States.
- The Programme Aims At Achieving **A Global, Continuous, Autonomous, High Quality, Wide Range Earth Observation Capacity**. Providing **Accurate, Timely And Easily Accessible Information** To, Among Other Things, Improve The Management Of The **Environment, Understand And Mitigate The Effects Of Climate Change, And Ensure Civil Security**.
- **Copernicus Builds Upon Three Components:**
 - **The Space Component** : This Comprises Two Types Of Satellite Missions, ESA's Five Families Of Dedicated Sentinel (Space Missions) And Missions From Other Space Agencies, Called Contributing Missions.
 - **In-situ Measurements:** Ground-based And Airborne Data-gathering Networks Providing Information On Oceans, Continental Surface And Atmosphere.
 - **Services:** Developed And Managed By Copernicus And Offered To Its Users And Public In General.



The Services Past 25 Years:

- Over The Past 25 Years, The Copernicus Programme Has Emerged As **A Beacon Of Scientific Excellence**, Underpinning Real World Applications That Improve Our Understanding Of The Environment And Supporting Decision-making In A Wide Range Of Areas - From Health And Renewable Energy To Climate Change Adaptation.
- This Is Largely Thanks To The Data Generated By Its Six Core Services: **Atmosphere, Climate Change, Emergency, Land, Marine And Security.**



Copernicus Timeline:

1998	The <i>Baveno Manifesto</i> gives birth to GMES which, at the time, stands for <i>Global Monitoring for Environmental Security</i> .
1999	The name is changed to <i>Global Monitoring for Environment and Security (GMES)</i> , illustrating that management of the environment also has security implications.
2001	EU Heads of State and Government request that "the Community contribute to establishing, by 2008, a European capacity for Global Monitoring for Environment and Security."
2005	The Communication <i>GMES: From Concept to Reality</i> establishes priorities for the rollout of GMES services.
2005	GMES becomes Europe's main contribution to GEOSS, the Global Earth Observation System of Systems.
2007	The European Space Policy Communication recognises GMES as a major flagship of the Space Policy.
2010	The Regulation on "the European Earth Observation Programme (GMES) and its initial operations (2011-2013)" enters into force.

2012	The European Commission announces the programme's name change to Copernicus.
2014	With the launch of Sentinel-1A from the Guyana Space Centre in Kourou, the Copernicus space component is born.
2015	The Copernicus Marine Environment Monitoring service is declared operational.
2015	The Copernicus Atmosphere Monitoring Service is declared operational.
2016	The Copernicus Security Service is declared operational.
2018	The Copernicus Climate Change Service (C3S) is declared operational.
2020	Sentinel-6A Michael Freilich is the eighth satellite of the Sentinel family to reach orbit.

Quality-Assured Data On Earth's Changing Climate:

- The **Copernicus Climate Change Service (C3S)** Provides Authoritative Information About The **Past And Present Climate In Europe And The Rest Of The World**, In Addition To Forecasts For The Future.
- Through Its **Climate Data Store**, Which Is Designed To Enable Users To Tailor Services To Their Specific Needs, C3S Provides **Climate Data And Information On Climate Impacts On A Wide Range Of Sectors**.
- **C3S Publishes Monthly Climate Bulletins** With Up-to-date Information On Recent Climate Events, In Addition To Climate Indicators, Which Show The Long-term Evolution Of Key Variables Used To Assess The Global And Regional Trends Of A Changing Climate.
- **C3S Data Allow Scientists And Policymakers** To Track Indicators Such As Temperature Changes, Sea Level Rise, And Melting Ice Caps. This Data Is Invaluable For Assessing The Impact Of Climate Change, Formulating Evidence-based Policies, And Developing Effective Mitigation And Adaptation Strategies.

Understanding The Earth's Atmosphere:

- Since It Was Declared Fully Operational On 1 July 2015, **Copernicus Atmosphere Monitoring Service (CAMS)** Has Been Providing Consistent And Quality-assured

Information Related To **Air Pollution, Solar Radiation, Greenhouse Gases And Climate Forcing**, In Europe And Around The World.

- CAMS Uses Satellite And Ground-based Observations Combined With Forecast Models To **Generate Data That Policymakers, Researchers, And The Public Can Use** To Make Informed Decisions Regarding Air Pollution Mitigation And Public Health.
- CAMS Offers A Comprehensive Range Of Services Aimed At Monitoring And Analyzing Earth's Atmospheric Composition, **Providing Valuable Information And Tools To Assess Air Quality, Track The Distribution Of Pollutants, And Analyse The Dynamics Of Greenhouse Gases.**



Copernicus Emergency Service:

- The **Copernicus Emergency Management Service (CEMS)**, Implemented By The Joint Research Centre, Supports All Actors Involved In The **Management Of Natural Or Man-made Disasters By Providing Geospatial Information To Inform Decision-Making.**
- CEMS Constantly Monitors Europe To Forecast, Analyse, And Provide Information For Resilience Strategies. In Predicted Events, The Service **Immediately Notifies Users Of Its Findings** And Offers To **Provide Them With Maps, Time-series Or Other Relevant Information To Manage Disaster Risk.**



Copernicus Land Monitoring Service:

- The **Copernicus Land Monitoring Service (CLMS)** Provides Geospatial Information On Land Cover And Its Changes, Land Use, Vegetation State, Water Cycle And Earth's Surface Energy Variables To A Broad Range Of Users In Europe And Across The World.
- The CLMS Consists Of Five Main Components: The Systematic Monitoring Of **Biophysical Parameters, Land Cover And Land Use Mapping, Thematic Hot Spot Mapping, Imagery And Reference Data, And Ground Motion.**



COPERNICUS LAND MONITORING SERVICE
State of Play: In situ data requirements

Copernicus Marine Service:

- The **Copernicus Marine Service** Provides Free, Regular And Systematic Information On The State Of The **Blue (Physical), White (Sea Ice) And Green (Biogeochemical) Ocean** On A Global And Regional Scale.
- This Data Supports The Development Of Effective **Marine Policies, Promotes Sustainable Ocean Management,** And Aids In The **Conservation Of Marine Ecosystems.**
- It Is Designed To **Serve EU Policies And International Legal Commitments Related To Ocean Governance,** To Cater For Societal Needs For Global Ocean Knowledge And To Boost The Blue Economy Across All Maritime Sectors.



Copernicus Security Service:

- The **Copernicus Security Service** Is Designed To Address The Security Challenges Faced By Europe. Its Primary Objective Is To Enhance Crisis Prevention, Preparedness, And Response Capabilities In Key Areas Crucial To European Union Policies.
- **Within The Realm Of Border Surveillance**, The Service Strives To Reduce The Loss Of Life Among Illegal Immigrants At Sea While Bolstering The Internal Security Of The European Union.
- Additionally, The Service Endeavours To **Combat Cross-border Crime**. In The Field Of Maritime Surveillance, The Overarching Objective Is **To Support Europe's Maritime Security Objectives** And Related Activities In The Maritime Domain. This Encompasses Ensuring The Safety Of Navigation, Aiding Fisheries Control, Combating Marine Pollution, And Enforcing Laws At Sea.



COPERNICUS SERVICES FOR SECURITY APPLICATIONS

State of Play: In situ data requirements

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