



UN-GGIM:Americas
REGIONAL COMMITTEE OF UNITED NATIONS
ON GLOBAL GEOSPATIAL INFORMATION
MANAGEMENT FOR THE AMERICAS

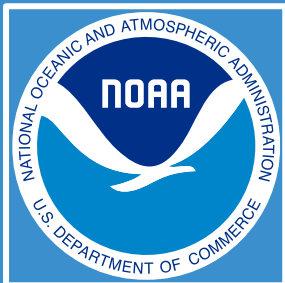
9° SESSION

UN-GGIM: Americas

UN Subcommittee on Geodesy (SCoG) Update

Dr. Daniel Roman, Chair, WG ETCB

Session 9: Geodetic Reference Framework for the Americas Working Group



November 28, 29 and 30
Santiago de Chile, ECLAC

Report filed at UN GGIM 12th Session

- Commended work of SCoG
 - Broad stakeholder engagement
 - Foster greater planning and international coordination
 - Two position papers
 - Sustaining the GGRF
 - Establish need for GGCE
- Global Geodetic Centre of Excellence (GGCE)
 - Facilitate discussions between Germany and UN at Bonn campus
 - Foster international support

United Nations



Economic and Social Council

E/C.20/2022/10/Add.1

**Committee of Experts on Global Geospatial
Information Management**

Twelfth session

New York, 3–5 August 2022

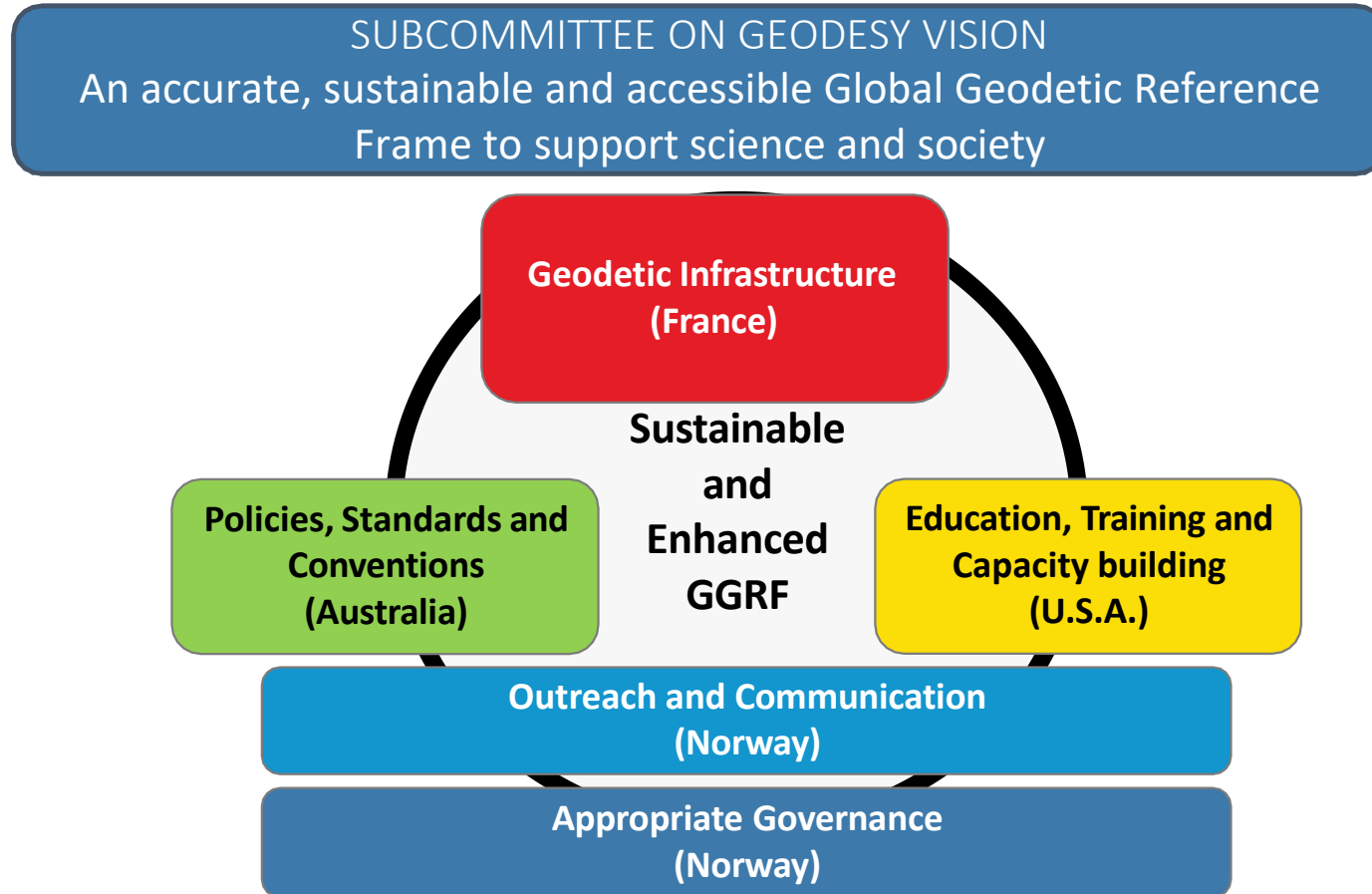
Item 8 of the provisional agenda*

Global geodetic reference frame

18 July 2022

Global geodetic reference frame

The UN SCoG and the GGRF

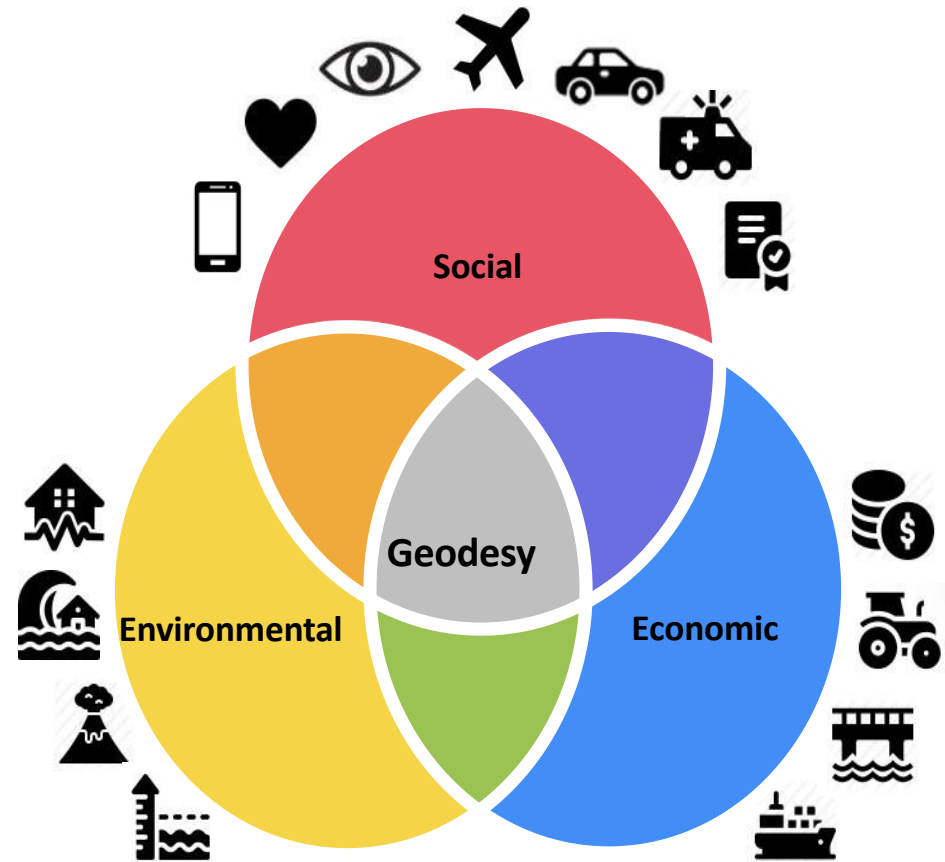


What is the GGRF? Many things ...

- ITRF – authoritative model of the Earth
- ICRF – to orient the Earth in the universe
- GI - VLBI, SLR, DORIS, GNSS
- Gravity and vertical control for physical heights
- Laws, international agreements and norms for Nations
- Standards, techniques & policies for clear guidance
- Equipment, tools and educated people to make it work
- More than just a reference frame – a lot more

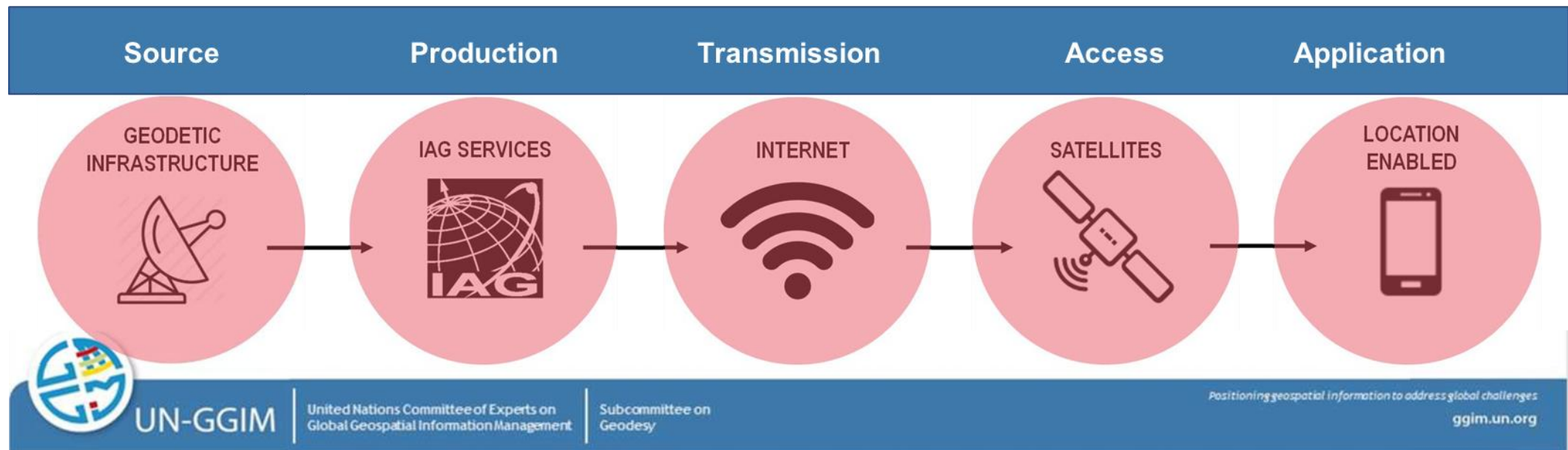
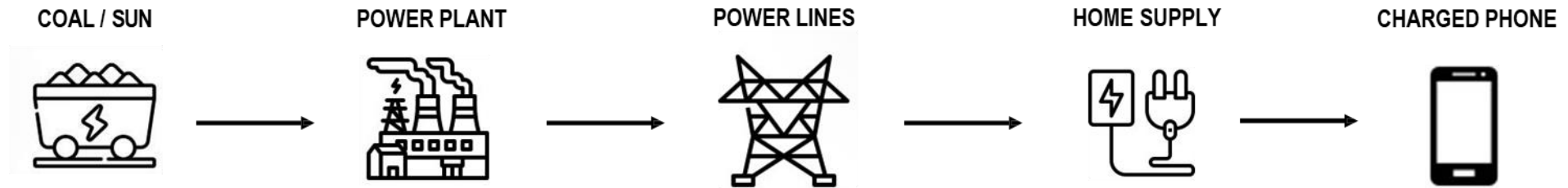
What does it support?

- Evidenced based policies
 - Environmental
 - Social
 - Economic
 - Accurate positioning data
 - In an accessible framework
 - With consistent standards
 - Synergy from interoperability
-
- But the geodesy at the core is often overlooked, unseen and under-appreciated



It is all connected ...

Sustain the entire value chain



The Two Position Papers

FINAL DRAFT FOR ENDORSEMENT

UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Subcommittee on Geodesy

Version: 29 July 2021

E/C.20/2021/7/Add.2

Position Paper on Sustaining the Global Geodetic Reference Frame

A plan to help achieve the long-term accuracy and accessibility of the Global Geodetic Reference Frame

Strategy and Action Plan to sustain all elements of the geodesy value chain

FINAL DRAFT FOR ENDORSEMENT

UNITED NATIONS COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Subcommittee on Geodesy

Version: 29 July 2021

E/C.20/2021/7/Add.3

Concept Paper on Establishing a Global Geodetic Centre of Excellence

Dedicated people focused on improving collaboration and coordination amongst the global geodetic community

Establishment of the GGCE in Germany

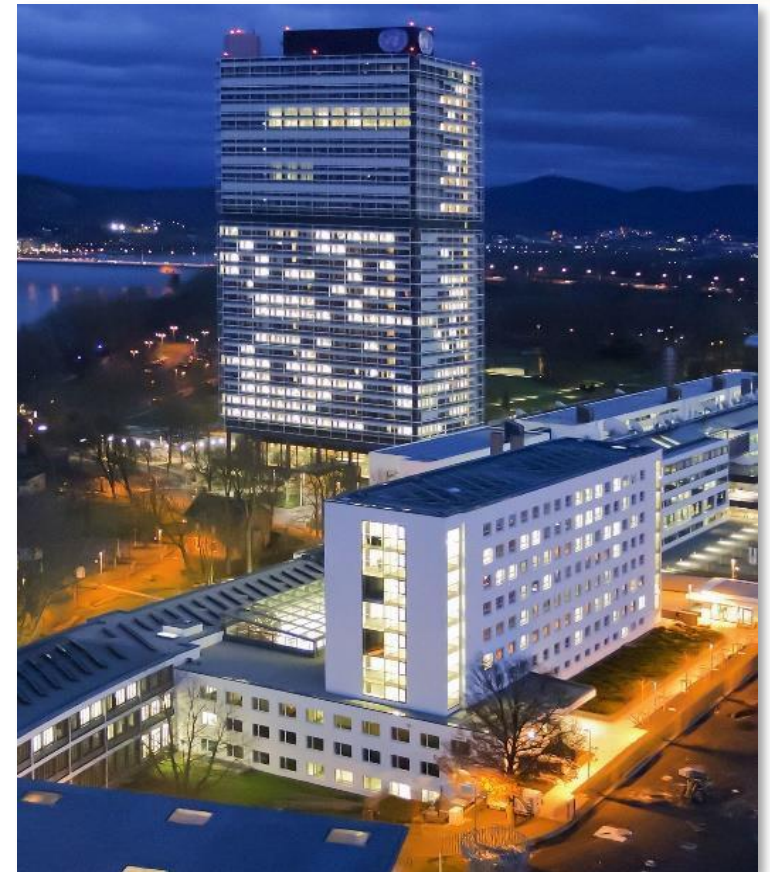
Offer of the German Federal Government was accepted and supported on 11.09.2020 at the 10th UN-GGIM Committee of Experts

The GGCE in Germany

- located at the UN Campus Bonn
- financed and supported by BKG
- supported with virtual secondment by Norway
- Steering Committee (UN DESA + Germany)
- Technical Advisory Committee (SCoG, IAG, FIG, Space Agencies, ...)

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- Courtesy Johannes Bouman



UN Campus Bonn

Source: Press office of the city of Bonn

Global cooperation and coordination

Economic benefits from investment in geodesy



IGS INTERNATIONAL
GNSS SERVICE



UN SCoG Representatives from the Americas

Argentina: **Federico Arpe**

Canada: **Calvin Klatt**

Costa Rica: **Álvaro Álvarez**

Jamaica: **Nolan Aikens**

Mexico: **Francisco Medina**

United States: **Daniel Roman**

Uruguay: **Juan Croquis**



Thank you for your attention