



**GEO Earth Observations for Health GEO
VIRTUAL SYMPOSIUM 2023
(EO4HEALTH 2023-2024)**

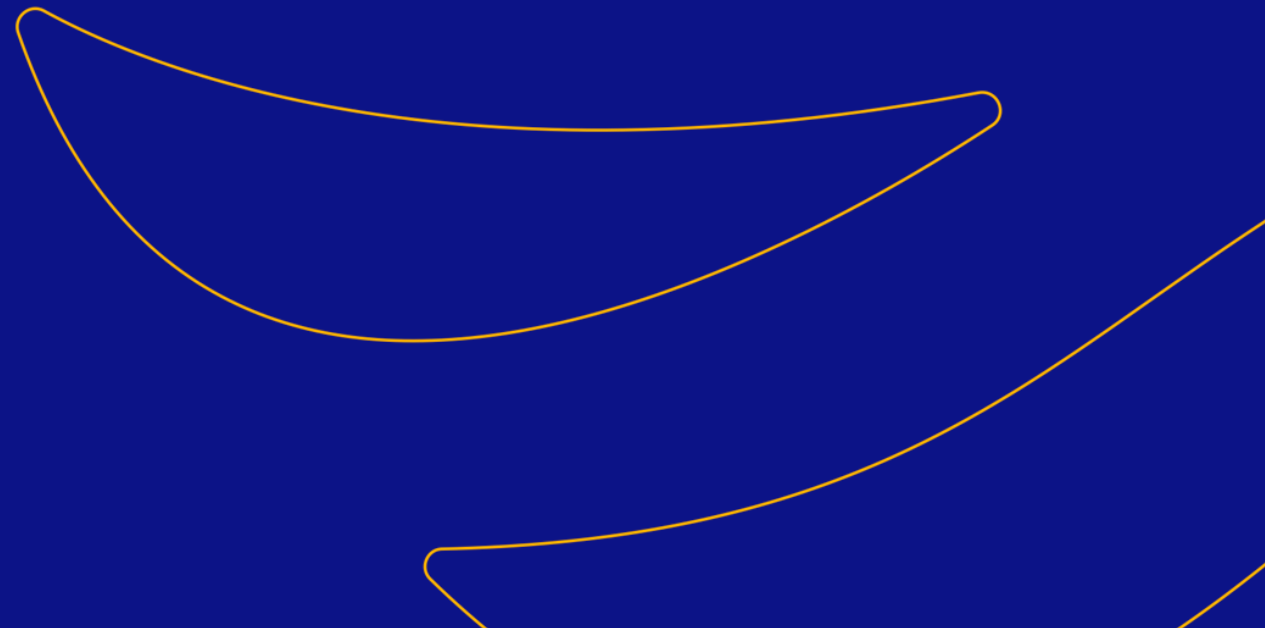
Predicting the Multisectoral Impacts of
Health Infrastructure Small Working Group

Dr. Terry Idol, Skymantics

Antonio Correias

GEO Health Community of Practice

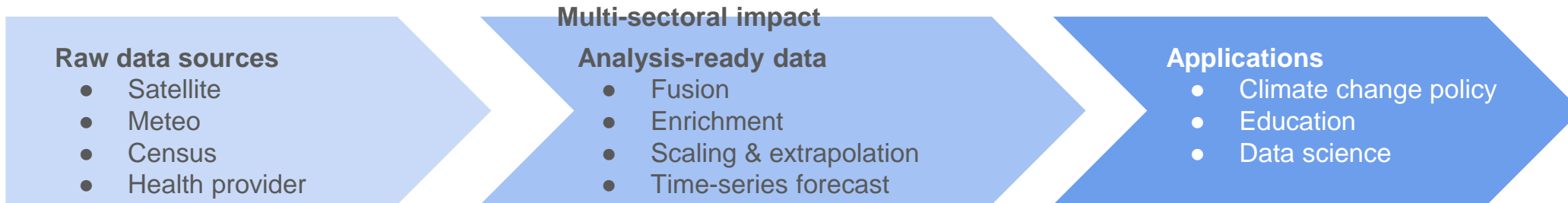
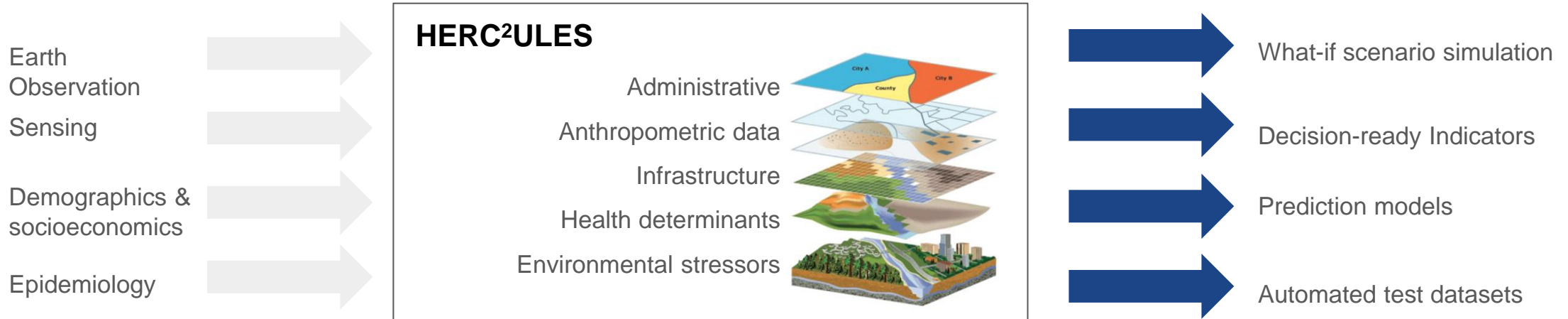
14 December 2023



Goals – HERC²ULES objectives

- Establish a monitoring and mitigation **alert system** for heat specifically tailored to vulnerable population
- Model a **data-driven methodology** to forecast spread, severity and vulnerability
- Create a “**Digital Twin**” for test and analysis of alternative realities
- Merge **authoritative data sources** in a geospatially enabled, multi-layer decision support data pool
- Validate approach and toolset with a variety of **geographic areas globally**
- Create and use **synthetic data** to augment data with **expanded demographics** and psychographics attributes to support **advanced analytics** and **scenario forecasting**, while **protecting sensitive information**.

Accomplishments – HERC²ULES implementation methodology



Partners and geographic regions – **Europe** Spain, UK, Finland, Italy, Greece, Turkey, Switzerland **USA** California, Arizona, Nevada, Texas, New Mexico, North Carolina, Maryland **Latin America** Perú, Argentina, Uruguay **Africa** Egypt, South Africa, Several Sub-Saharan Countries

International organizations, WMO, MRI (Conectate A+), PAHO, Red Clara, WHO, Inter American Institute (IAI) for Global Change Research **Government institutions** Organismo Andino de Salud, (Convenio ORAS-CONHU), Ministerio de Salud Pública de Uruguay, Ministerio de Salud Pública de Neuquén, Argentina

Needs: Bring HERC²ULES to life

We seek **funding, partners, and data**

Sponsors role: Project scope

- Funding
- Identification of partners
- Identification of decision makers
- Input on implementation plan
- Data needed

Fill in Knowledge Gaps

- Impact of extreme heat to:
 - Maternal/child health
 - Maternal/child nutrition
- Low and Middle Income Countries (LMICs)
- Adaptation effectiveness

Point of Contact

- Ajay K. Gupta, CISSP, MBA,
HSR.Health
agupta@HSR.health
- Dr. Terry Idol
Skymantics
Terry.Idol@Skymantics.com

Your support plays a key role in taking this to the next level