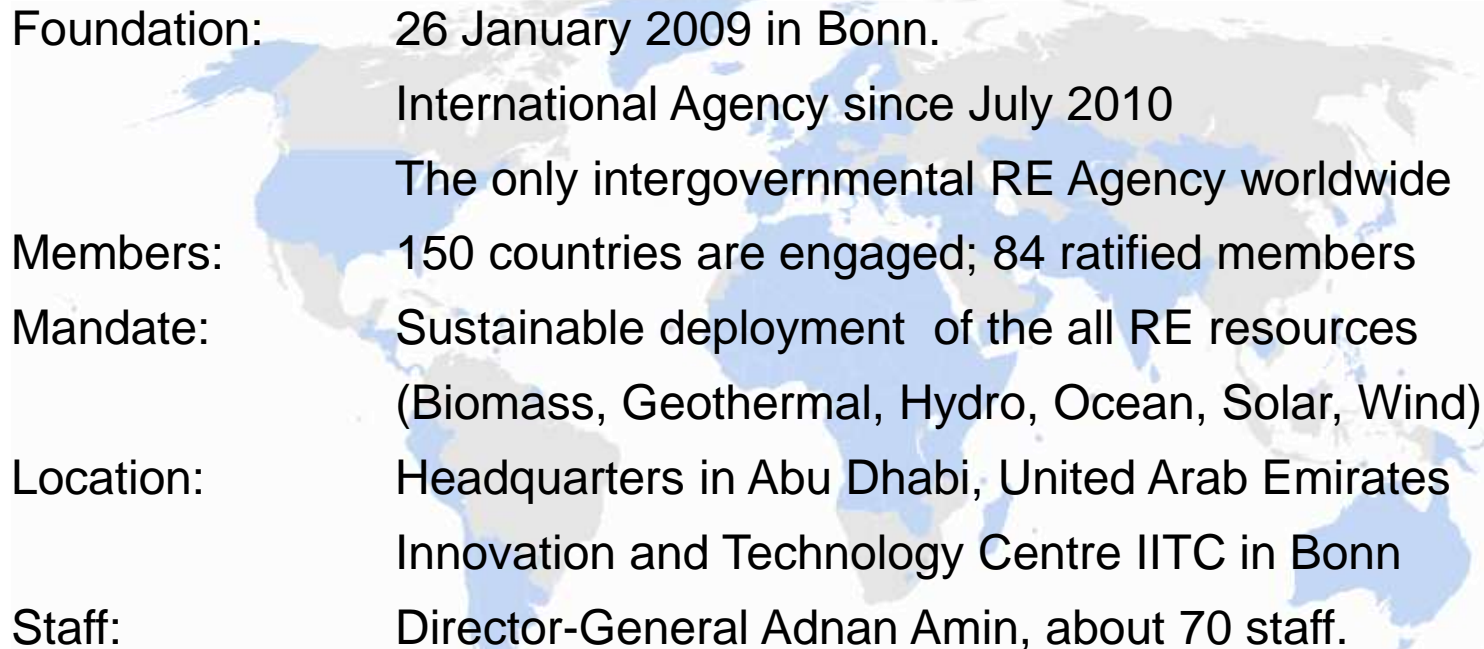


# Global Solar and Wind Atlas Introduction

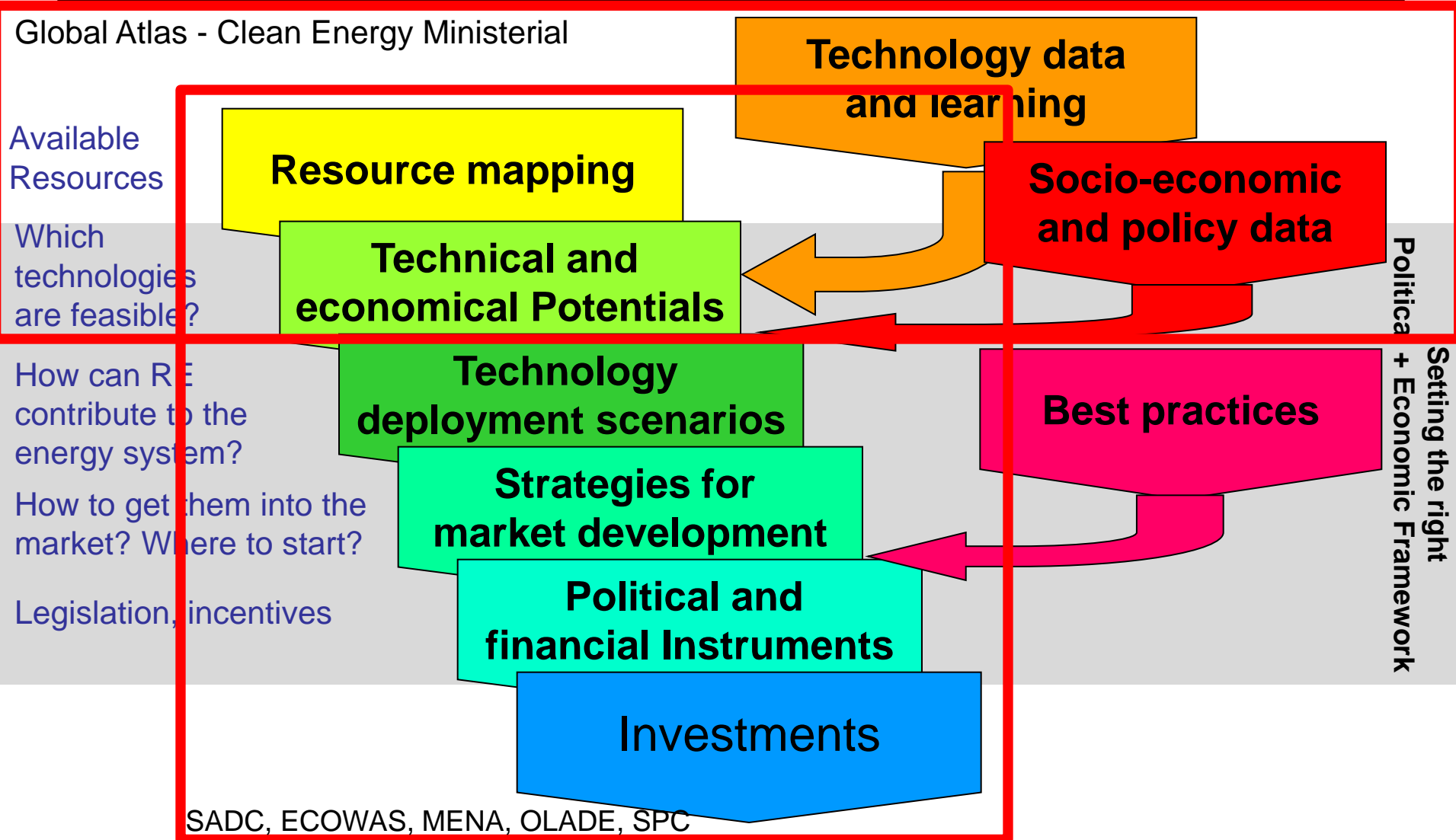
## About IRENA



Foundation:	26 January 2009 in Bonn. International Agency since July 2010 The only intergovernmental RE Agency worldwide
Members:	150 countries are engaged; 84 ratified members
Mandate:	Sustainable deployment of the all RE resources (Biomass, Geothermal, Hydro, Ocean, Solar, Wind)
Location:	Headquarters in Abu Dhabi, United Arab Emirates Innovation and Technology Centre IITC in Bonn
Staff:	Director-General Adnan Amin, about 70 staff.



# Why evaluating potentials?



## What should a Global Atlas achieve?



- 
- The atlas should provide reliable, global, policy relevant, estimates of solar and wind energy potentials accounting for high resolution effects
  - The information should be relevant to support decision-making, planning and policy making
  - Be understandable by non-experts to engage new audiences
  - Link to existing work
  - **A GLOBAL ATLAS WILL BE USED TO ENHANCE POLICY MAKING, BUT WILL NOT AVOID DETAILED ASSESSMENTS FOR DEVELOPPING PROJECTS**

# How to develop a global atlas?

- A global methodology for assessing renewable potentials over the world
- Based on the latest available information
- Backed by a strong scientific consortium



# The Global Atlas vs. A Global Atlas

- A truly international initiative to jointly develop the reference for Solar and Wind potentials
- Building on the existing systems and databases and available knowledge

## Lead countries



## Participating countries



## Organisations



## Private companies



## Partner organisations



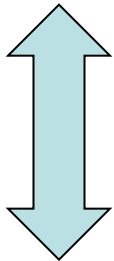
## Research institutes



# An open architecture

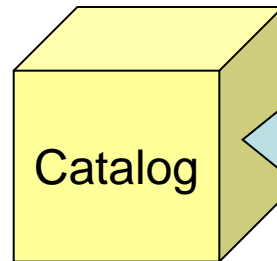


Interface 2012:  
basic features  
**DLR / NREL**



Interface hosting:

**IRENA / NREL (+Open EI) / MASDAR**



**MINES  
ParisTech**

Source	Shared by	Scope
SWERA Archive	NREL	Solar / Wind
HelloClim 1	Mines ParisTech	Solar
HelloClim 3 (average monthly mean)	Mines ParisTech	Solar
PACA high-resolution atlas	Mines ParisTech	Solar
Solar-Med atlas	Mines ParisTech	Solar
NASA solar dataset	NREL	Solar
Soair Med Atlas	DLR	Solar
Solar GIS (annual values, monthly averages)	Geomodel	Solar
CENER dataset	CENER	Solar / Wind
Reanalysis data	DTU Wind	Wind
Complementary datasets	Geomodel	Terrain, population, landcover
Complementary datasets	TBD	Grid infrastructure, roads

Initial datasets 2012:  
contributing institutes

**2012: inviting countries to propose their national atlases**

# Timeline

**End 2011**

**Prototype**

**January 2012**

**First end user workshop**

**CEM 25 April 2012**

**Enhanced partnership**

**IRENA Council Oct. 2012**

**End user group review**

**Operational system demo.**

**IRENA Assembly Jan. 2013**

**Adding online analysis tools**

**From 2012**

**Adding socio-economic aspects  
(costs, jobs)**

**2012**

**Adding bioenergy, hydropower  
(geothermal)**