

# TIAM Update Workshop

ETSAP Meeting: Stuttgart  
9<sup>th</sup> November 2018

# Agenda

13:30 – 14:30 TIAM input session (inputs from wider ETSAP welcome)

- Intro to TIAM (2 mins)
- SWOT analysis (15 minutes)
- Regions selection discussion (40 minutes)

14:30 – 15:00 Coffee break

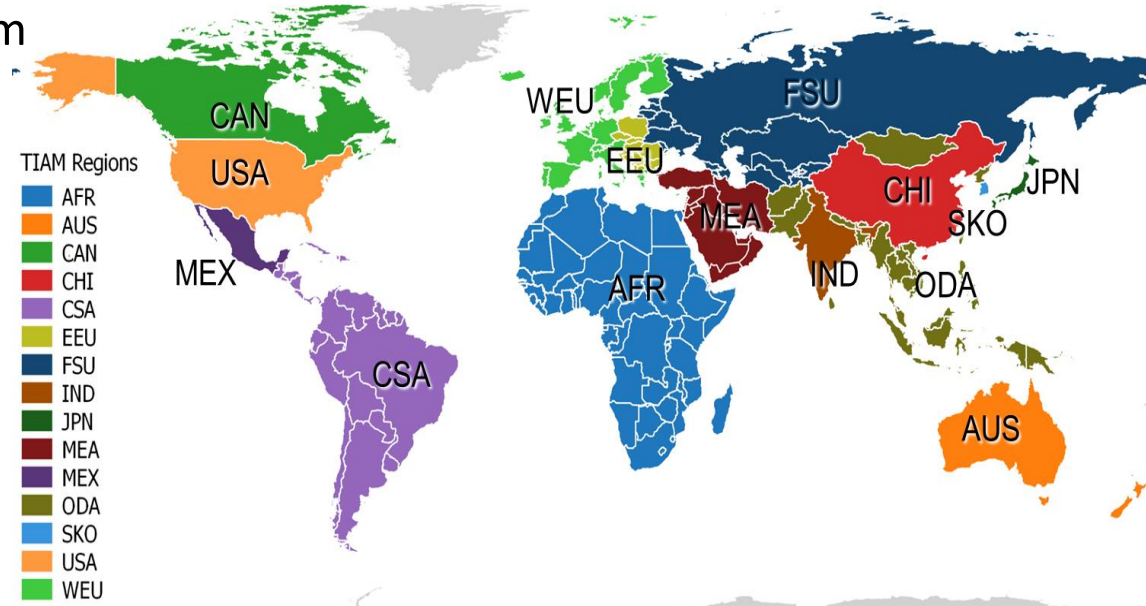
15:00 – 17:00 TIAM update session

- Go through timelines and key workflow dependencies

# Method. ETSAP-TIAM model outline



- 15 Region linear programming bottom-up energy system model of IEA-ETSAP
- Integrated model of the entire energy system
- Prospective analysis on medium to long term horizon (2100)
  - Demand driven by exogenous energy service demands
  - SSP2 from OECD Env-LINKS CGE model
  - Regional Structural detail of the economy
- Partial and dynamic equilibrium
  - Price-elastic demands
  - General Equilibrium with MACRO
- Minimizes the total system cost
  - Or Maximises Consumption/Utility
  - Hybrid General Equilibrium MSA
- Optimal technology selection
- Environmental constraints
  - GHG, Local Air Pollution & Damages
- Integrated Simple Climate Model
- Myopic and Stochastic run options



# SWOT analysis

<https://tinyurl.com/TIAMswot>

# Selection of Regions

Three options currently on the table

1. Keep the regions as they are
2. Move to a ~30 region model based on logical approach
3. Completely flexible aggregation by generating automated BY templates from IEA data and aggregating using VEDA super-region feature

<https://tinyurl.com/TIAMregion>

# Goals for this meeting

- Final decision on selection of regions
- Identify specific tasks to address critical decision points and allocate leads and deadlines
- Begin discussion on subRES update
- Press 'go' on BASE year update

# TIAM task breakdown and planning

<https://tinyurl.com/TIAMplan>



# Have we achieved our goals?

- Final decision on selection of regions
- Identify specific tasks to address critical decision points and allocate leads and deadlines
- Begin discussion on subRES update
- Press 'go' on BASE year update