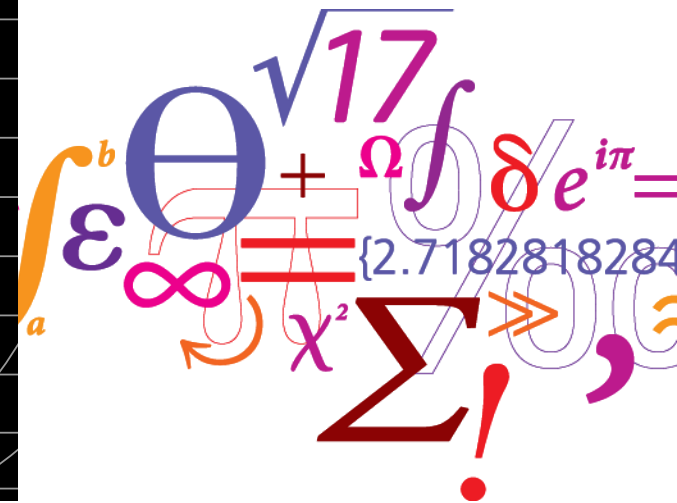
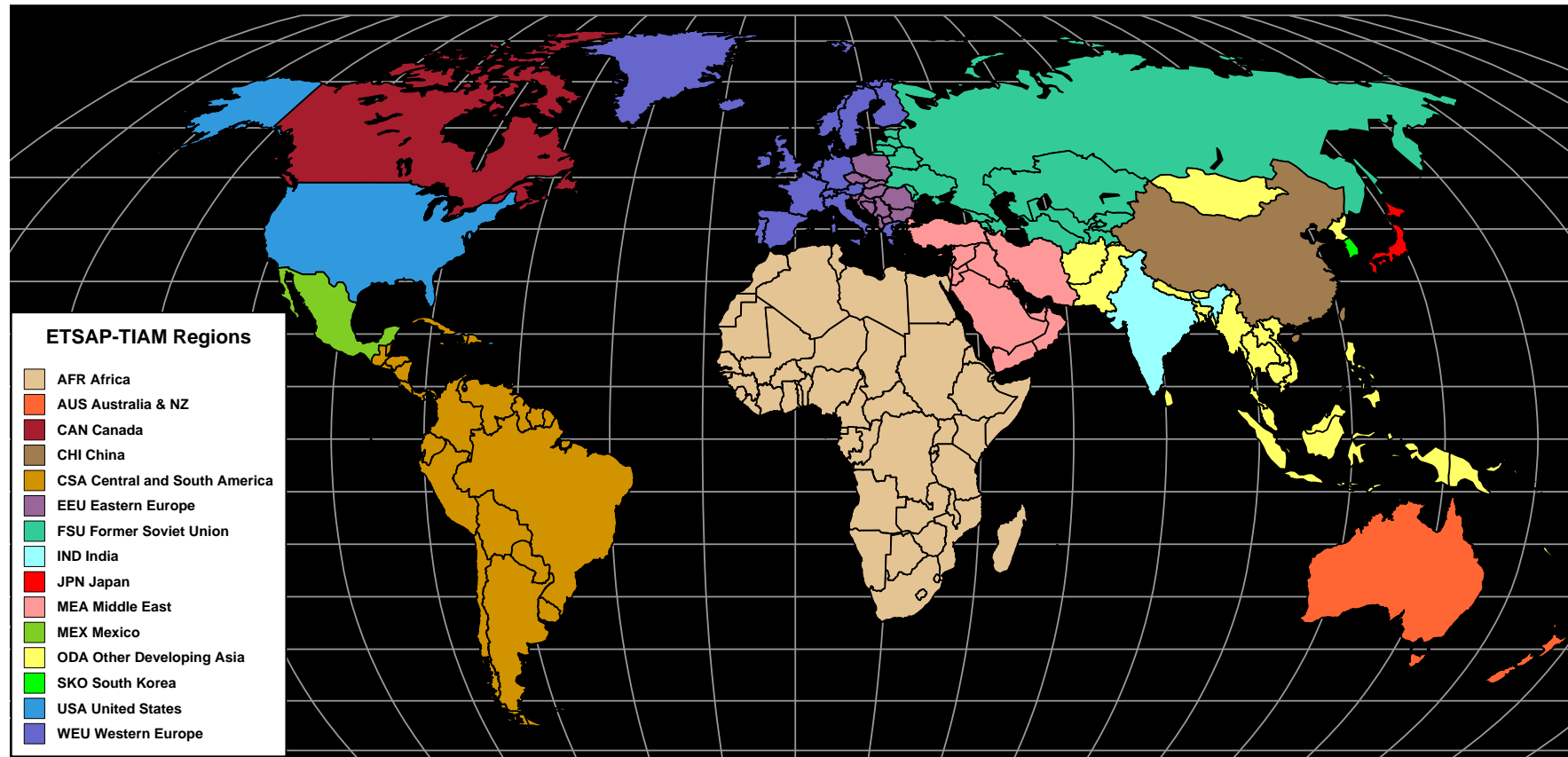


ETSAP-TIAM Update and Re-calibration

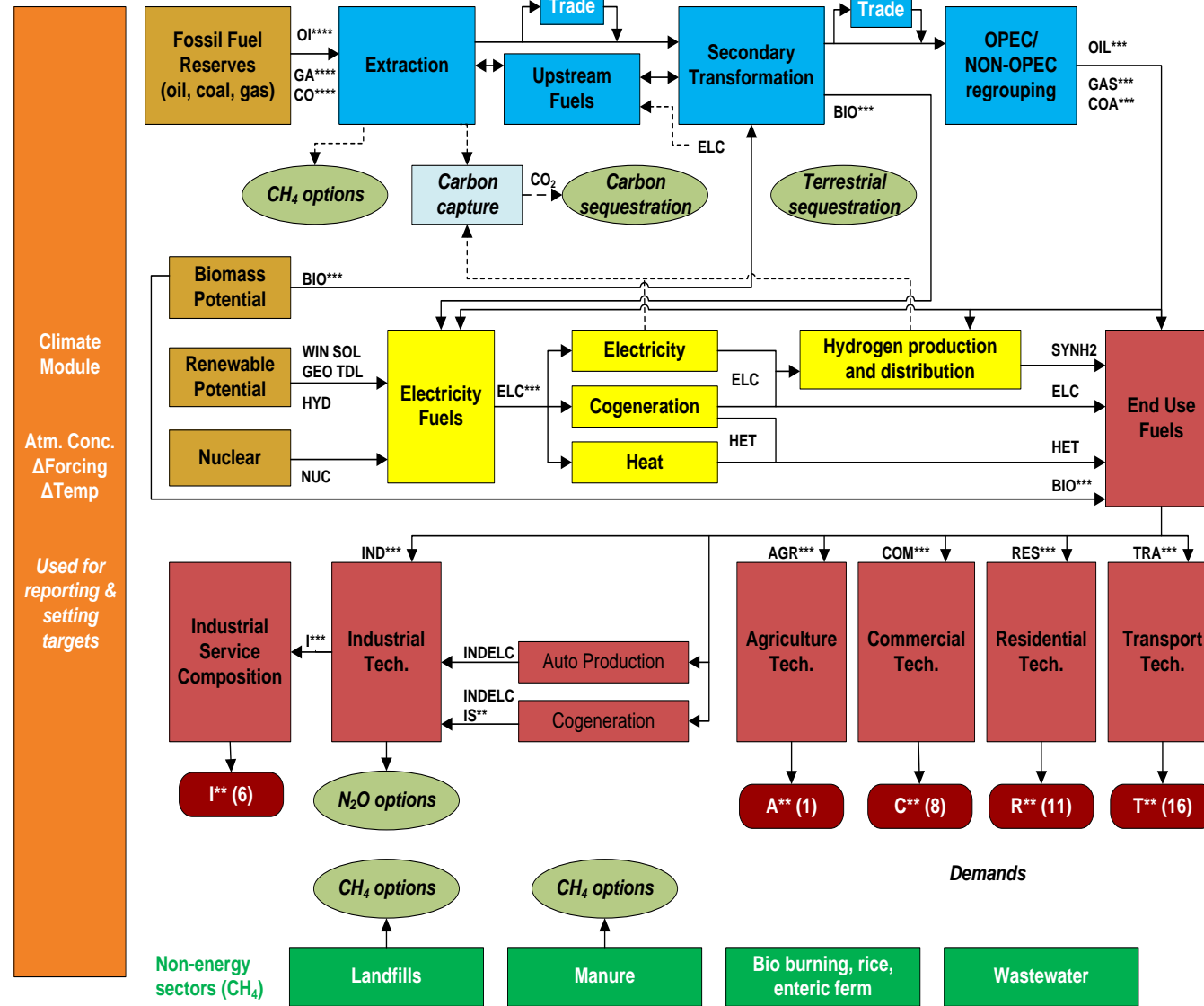
Workshop Madrid, November 2016



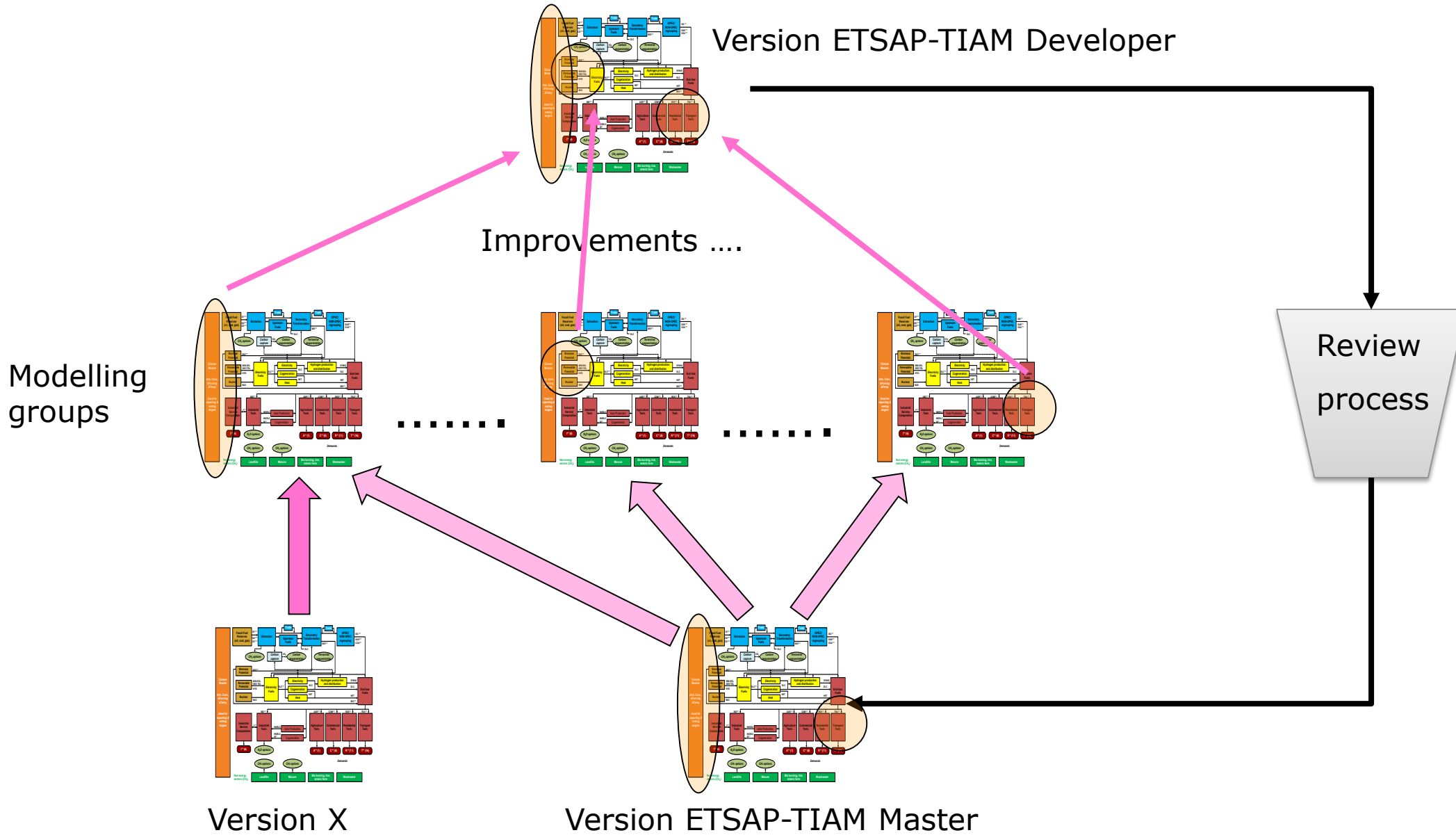
Building on top of the ETSAP-TIAM Git version control project,

- the natural continuation will be model update and re-calibration

The update is needed if we want the shared ETSAP-TIAM model to be used for future policy analysis



Version controlled ETSAP-TIAM



What will you push in the running Git project?

Team	"Push"	Timeline
UCC	Macro drivers	End December 2016
ICL	RE cost reduction scenarios	January 2017
CMA	Bio energy potential scenarios	January 2017
.....		

Deliverables

1. Workshops involving ETSAP-TIAM users for determining needed areas to update in the model and e.g., the number of regions wanted in the model
2. Report with analysis of needed changes in the model
3. Updated data, energy balances, technology SubRES, macroeconomic outlook and trade matrixes
4. Re-calibration and set up of a VEDA-BE database for results analysis, and documentation of ETSAP-TIAM. This includes also minimum two standard scenarios: Reference and a Policy scenario

Relevance to Annex XIV topics

"Understanding and Facilitating the energy transition to achieve the well below 2°C goal"

- This calls for an updated and improved global model - A cooperative approach will speed up the process many times

"Improved modelling of interactions between energy system and economy"

- "Linking" ETSAP-TIAM with CGE models, environmental models, regional models etc. will need serious improvements of ETSAP-TIAM to make sense

Budget - 100k€

Period: 2 years

Task	Task Description	Cost (k€)
1. Version control	Continue and further develop version control of the model	3.0
2. Updating data (10k€ for buying data)*	Energy balances, potentials, reserve values, prices, demand projections)	24.2
3. Workshop/travel support	Preparation and organization of workshops coordinating the needed updates to ETSAP-TIAM, (structure/regions, etc.) plus possible support to travel costs)	22.5
4. Re-calibration and scenario setup	Update template structure, new calibration year, update trade matrix, scenario constraints	41.3
5. Documentation	Documentation directly in model files and a getting started manual	9.0

Split of budget in two phases of one year

Part 1 will then consist of the 3 first tasks preparing for the re-calibration, but also include a first version of the reference and policy scenario.

Part 2 will mainly be the re-calibration, documentation and final scenario development.

Project split:

Part 1: 1 year, 45.8k€

Part 2: 1 year, 54.2k€

Why will it work?

- It has to work - the world need analysis of deep cut scenarios
- Together we are much stronger and the development process can be speeded up many times
- working directly and dynamically together will make the difference
- Linking ETSAP-TIAM with other models, e.g. GTAP will require an improved model
- ETSAP sponsors are interested in an improved and updated ETSAP-TIAM