

GREC-PACA

Groupe régional d'experts sur le climat
en Provence-Alpes-Côte d'Azur

Science for society

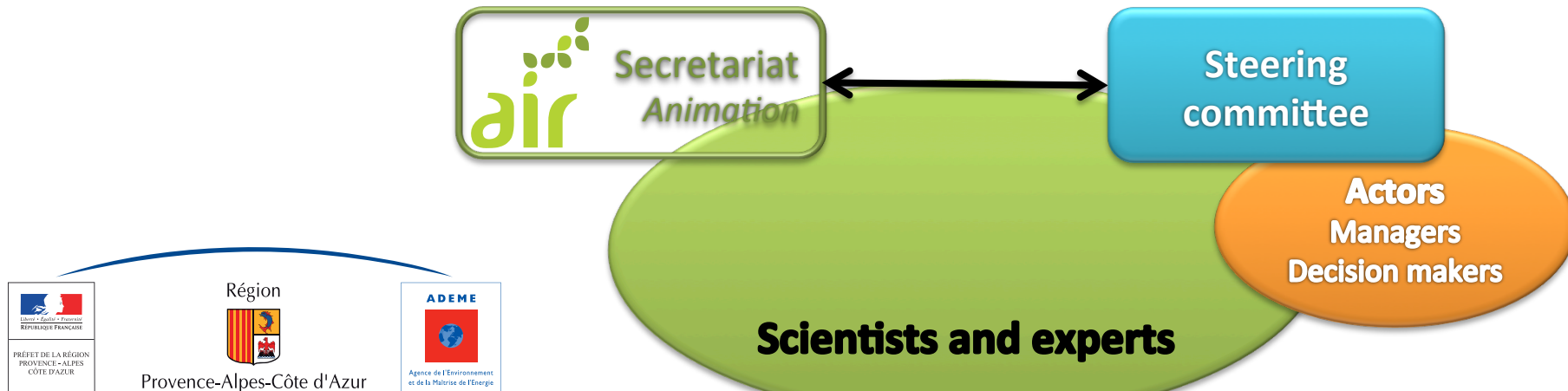
www.air-climat.org/grec-paca/decouvrir-le-grec-paca

50 scientists and experts
Présidence: J. Guiot, B. Seguin
Coordination: M. Lootvoet, P. Rossello
A steering committee
A first publication issued in June 2015

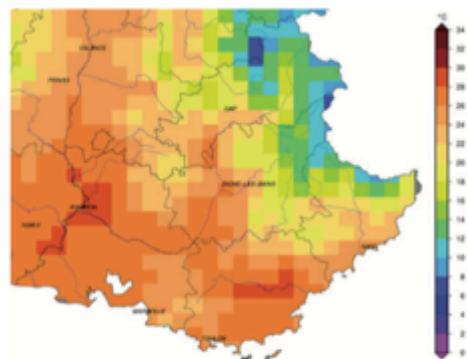


A regional group of experts on climatic change to dialog with decision makers

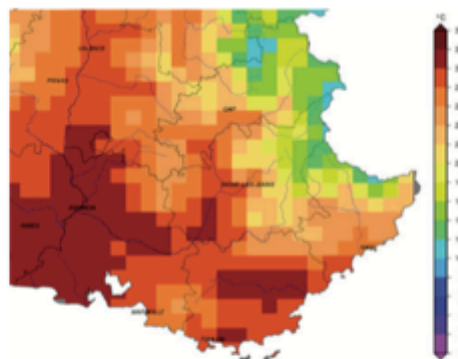
- **Improve exchange** between scientists and decision makers
 - Organise and share the scientific knowledge
 - Contribute to **dialog**
 - **Enlighten** local issues
 - Propose **local solutions**



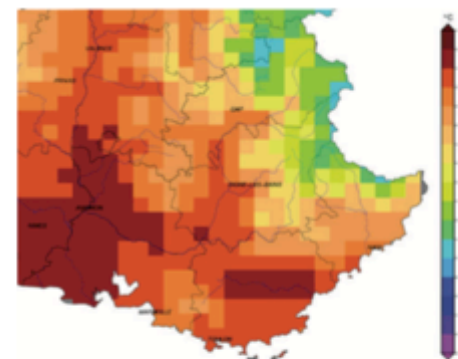
Local scenarios: downscaling



Température maximale quotidienne
pour le jeu de données de référence
Période de référence (1976-2005)
Moyenne estivale



Température maximale quotidienne
pour le scénario RCP4.5
Horizon lointain (années 2071-2100)
Moyenne estivale



Température maximale quotidienne
pour le scénario RCP8.5
Horizon lointain (2071-2100)
Moyenne estivale

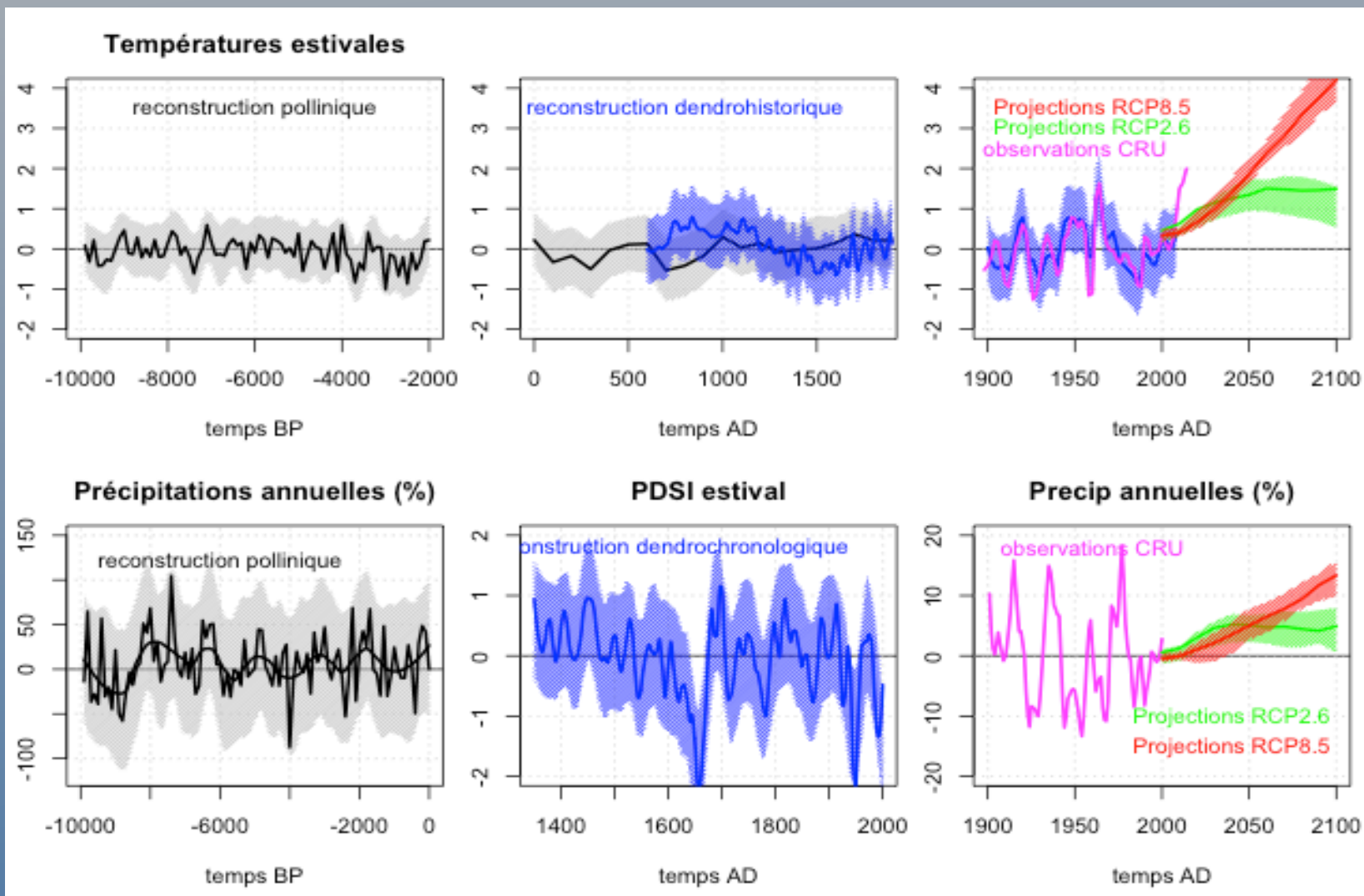
Annual temperature increase 2100: +1,9°C à +4,6°C

Summers: de +1,2°C à +5,7°C versus 1990.

Important uncertainties on precipitations

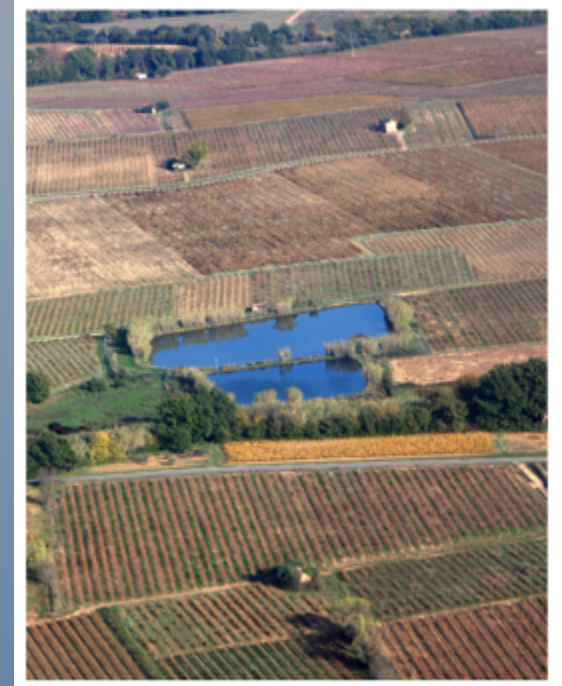
Decrease of water availability (evapotranspiration increase, snow decrease)

Future scenarios and past climatic changes for the region PACA

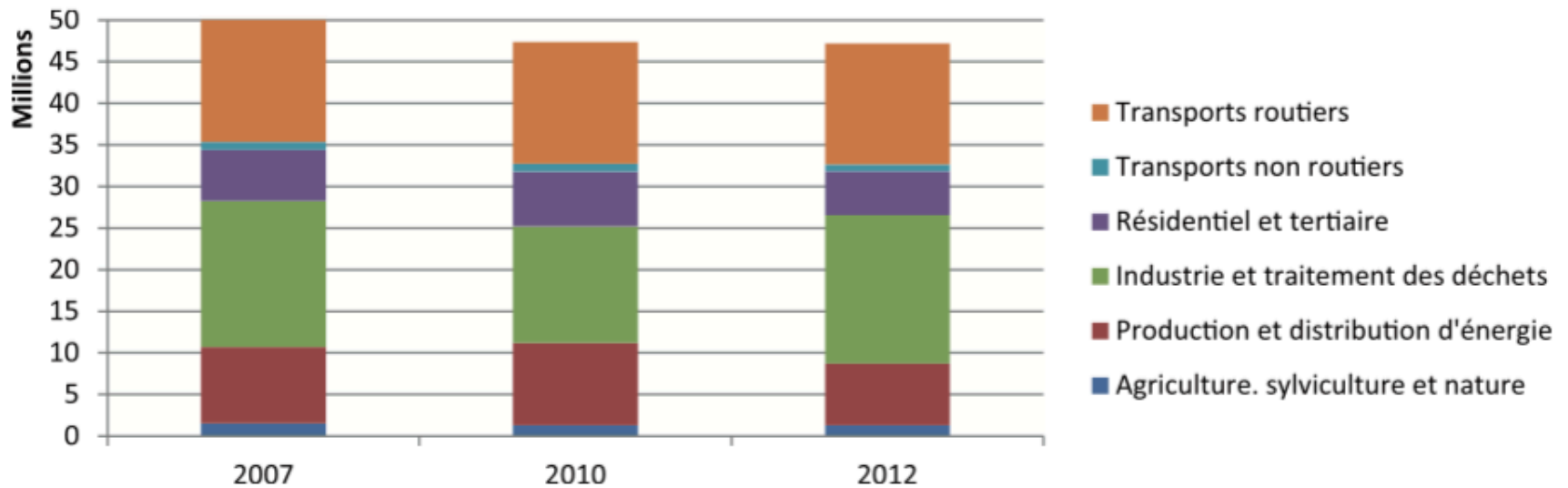


Important issues for the PACA economical activity

- Agriculture: yield reduction low elevation, better yields higher elevation
- fishing: climate change amplifies the consequence of overfishing
- Tourism: attractiveness decrease for the coastal areas, snow decrease in mountain, necessity to change the tourism offer, to lean on quality, inheritance enhancement
- Cities: bioclimatic urban planning, building insulation
- Mobility: public transportations



PACA region contributes to GHG more than the national average



Évolution des émissions de GES en Provence-Alpes-Côte d'Azur, en tonnes, eq.CO₂

Source : Air PACA, inventaires 2007, 2010 et 2012



9.5 tons/yr/person versus 8.6 for the national average

- 79% energy
- 21% industry, waste treatment, agriculture

Six working groups

- Climate: past and future scenarios
- Water resource
- Cities, transportation, buildings, air
- Biodiversity (sea, land, aquatic)
- Agriculture, forest, fishing
- Energy
- Health