

Expert Group on Adaptation to Climate Change

First meeting, 6—7 September 2017

GAYE KANDEMİR

Turkey



How do you contribute with your work in your country/organization to climate change adaptation activities?

Selection of gene conservation unit

Ex situ gene conservation area

Drought and cold resistant population selections (especially *P. brutia*, *P. nigra*, *P. sylvestris*) adaptive seedling characters

Progeny and provenance trials

In situ and *ex situ* conservation of marginal populations

Long term progeny tests set up within a breeding zone but in different locations might help assess the effects of climate change. Yet they have been established to select growth ability, periodical growth data gained from 29 tests could be used in comparison with the long term climatic data.

Please describe a successful example of climate change adaptation measures implemented in your country/by your organization

Adaptation projects related with *P. brutia* *P. nigra* and *P. sylvestris*. Suggestion and using these populations for reforestation activities.

Projects about arid and semiarid region plantations.

Is there a national strategy (does your organization have a strategy) on adaptation of forests to climate change?

Climate change national action plan (2011-2023)

<https://www.csb.gov.tr/db/iklim/banner/banner591.pdf>

http://www.csb.gov.tr/db/iklim/editorDOSYA/iklim_degisikligi_stratejisi_EN.pdf

The goals of “Climate Change National Action Plan” by means of ecosystem, biodiversity and forests as follow;



Goals to adapting climate change by means of ecosystem , biodiversity and forestry

- Existing strategies are adopt to adapt to climate change effects.
- Detecting and monitoring the effects of climate change on species in forest areas.
- Determination of land use change due to the effects of climate change in forest areas.
- Monitoring the health of forest ecosystems.
- Conducting Research & Development studies to identify and monitor the effects of climate change on protected areas.

Goals to adapting climate change by means of ecosystem , biodiversity and forestry

- Consideration of climate adaptation activities in the socio-economic development of forest villagers and support for rural development in this way.
- Determination of climate change effects in mountain, step, inland water, marine coastal ecosystems and ecosystem services they provide, monitoring and developing measures to adapt to climate change.
- Integration of adaptation to climate change within the framework of marine and coastal management.
- Protecting forests against to fires

What are major challenges related to climate change and forests in your country/organization?

Lack of information about adaptive traits of many tree species and populations.

Increasing forest fires

Increasing pathogens and insect species and their harmful effects related with climate change