Calendar discussion and work organization

List of deliverables

Deliv.	Deliverable name	WP	Delivery date
1.1	Reports and actions lists from annual partner meetings	1	1,12,24,36
1.2	Annual reporting	1	annual
1.3	CROSSDRO project web site	1	2 and updates
2.1	Sectorial drought impacts in the different basins	2	18
2.2	Cross-sectorial drought impacts	2	30
3.1	Cross-sectorial market economic impacts	3	20
3.2	Non-market drought effects	3	33
4.1	Pan-European remote sensing-assessment of drought impacts	4	30
4.2	Hydrological drought impacts at the European level	4	30
4.3	Drought impacts on crops and forests	4	30
4.4	European cross-sectorial impact model validation	4	36
5.1	Basin-scale individual sectorial drought impacts for future scenarios	5	30
5.2	Upscaled scenarios and uncertainties at broader scale	5	36
5.3	Forecasted changes in drought risk under future climate change scenarios	5	36
6.1	Stakeholder engagement sessions held	6	12 and updates
6.2	For each basin, capacity building sessions held and report produced	6	12,24,36
6.3	Papers published in international journals	6	36
6.4	Newsletters produced	6	12,24,36

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
WP1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WP2	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WP3						x	x	x	x	x	x	x	x	x	x	x	x	x
WP4													x	x	x	x	x	x
WP5													x	x	x	x	x	x
WP6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Deliverab.	1.1	1.3										1.1,6.1, 6.2,6.4						2.1
Milestones	1.1					2.1,6.1,6.2		2.2		2.3						3.1		4.1,4.2,4.3,6.3,6.4
Progress. Monitoring												x						
Mobility. Scheme.						x						x						x
Risk Managem.	x											x						x

Month	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
WP1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WP2	x	x	x	x	x	x	x	x	x	x	x	x						
WP3	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
WP4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WP5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WP6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Deliverab.		3.1				1.1,6.2, 6.4						2.2,4.1, 4.2,4.3, 5.1			3.2			1.1,4.4, 5.2,5.3, 6.2,6.3, 6.4
Milestones		5.1		5.2		3.2	5.3			4.4								
Progress Monitoring						x												
Mobility Scheme						x						x						
Risk Manag.						x						x						

Dissemination plan

A major outcome of the project will be the ongoing dissemination of information and results to stakeholders, end-users and managers. CROSSDRO will interact with relevant agents and stakeholders by means of different approaches including

i)   **local guided visits,**
ii) **local technical demonstration and advising sessions and**
iii) **regional training sessions.**

Stakeholders involved:

i)   public authorities at national, regional and local level.
ii) scientists involved in climate change projects. Scientists will provide information and data on the ecology, hydrology, climatology, biodiversity, land use and other relevant aspects needed to understand the current state and expected future trends of drought impacts at the European level.
iii) representatives of the civil society, including NGOs. iv) representatives of the private sector (farmers, SMEs, as well as key entrepreneurs and local cooperatives).

OPEN KNOWLEDGE PLAN:

JPI Climate Guidelines on Open Knowledge. The different working documents, data generated and computer codes will be accessible for all JPI climate members and partners. This includes the different **sectoral data generated in the different basins** but obviously the **sectoral models** (crop, snow and eco-hydrological) applied in each one of the basins and the projected impact scenarios.

The datasets generated will be available in **open formats**, probably using R libraries to store the huge developed information for gridded data, based on the gridded climate, projected scenarios and remote sensing imagery in the very efficient netCDF-4 format.

A public spatial and temporal data infrastructure containing the different multi-scale empirical information and the model outputs will be made publically available:

i) climate drought indices for the different basins,
ii) hydrological drought indices,
iii) metrics of health conditions of managed and non-managed land cover classes based on remote sensing methodology for describing vegetation dynamics,
iv) snow and ice measurements for different variables,
v) geochemical analysis records (isotopes) to partitioning streamflow droughts between snow, rainfall and groundwater,
vi) crop conditions and yields in rain fed and irrigated lands,
vii) economic evaluations of market and non-market sectors including surveys and laboratory analysis,
viii) multi-sectoral calibrated bio-geophysical (snow, forest growth, hydrology), agricultural (crop) and economic model outputs,
ix) model impact and drought risk scenarios for future climate scenarios.

The project will develop a **handbook of lessons learned**.

CROSSDRO will contribute to develop an **Integrated Adaptation Strategy** to drought in the different analysed regions, but also with the purpose of replicating the strategies developed in other European areas.

Periodic **newsletters** will be available from the project´s web site to inform about relevant news concerning CROSSDRO, the evolution of the project and its main outcomes, as well as of relevant news concerning multisectorial drought impacts in Europe.

Forum, or support the existing platforms, to ensure effective uptake of the project outcomes by the end-users.

It is planned to coordinate a **special issue of a peer-reviewed journal** or book series with the main scientific findings of the project.

Publication of articles in top-level **international journals** and the organisation of sessions at international conferences such as the **EGU, AGU or IAHS** will push forth the scientific visibility of the project results in the international arena. **Open access publications** will be always a priority. Nevertheless, in the cases in which it is not possible to publish open access article given the high cost of some journals, the preprints of the documents will be made publicly available via platforms like **institutional web repositories**.