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where the dataset is stored	how the dataset is accessible to end users	Foreground or Background	License	DATASETS	Crop water requirements forecasts and projections (ARPAE, CMCC, FEM, ARPAP)	Land suitability for vegetation (forests) (CMCC)	Soil erosion (CMCC)	Human wellbeing in rural and urban areas (CMCC)	Water cycle and sustainability of competing uses (hydropower, domestic, agriculture, ecological) (CMCC)	Forest fire prediction and controls (UNITUS, CMCC)	Natural parks environmental management (FEM, UNITUS)	IOT for animal wellbeing (UNITUS)	Changes in the land suitability for vegetation (forests, crops) (ARPAP, CIA)	Forest fire potential (ARPAP)	Animal welfare and land suitability for farming (CIA, ARPAP)
HDP	HWP	FOR	Free for research and for Highlander partners	**VHR-REA_IT** (NetCDF) D4.1 - Dynamical Downscaling of ERA5 at hourly level with COSMO-CLM (2.2 km hor.res.) 1989-2018 (hopefully 1981-2020 as asked by the ARPAs) (CMCC)	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
HDP	HWP	FOR	CC BY 4.0	<dataset name?> (GRIB) **D4.1bis - Statistical Downscaling** (ecPoint tool by ECMWF) of ERA5 (ECMWF)	IN										
HDP	HWP	FOR	Free for research and for Highlander partners	**VHR-PRO_IT** (NetCDF) D4.2 - Downscaling at very fine resolution of COSMO-CLM over Italy from 8km to 2.2km hor. res. for 1989-2050 (hopefully 1981-2065) (CMCC)	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
HDP	HWP	FOR	ECMWF license for real time forecast data up to the verification date, an agreement with NMS is required to avoid paying for these data	**Sub-SEA** (GRIB) D4.3 - Downscaled sub-seasonal forecasts (ECMWF)	IN					IN	IN	IN			IN
HDP	HWP	BCK	CC BY 4.0	**Tree Talker Fire (TTF_PU_2020_1h)**						IN					
HDP	HWP	BCK	CC BY 4.0	**Animal Talker (C2040007_AT_LZ_2020_1h, C2040008_AT_ER_2020_1h)**								IN			
HDP	HWP	BCK	CC BY 4.0	**Tree Talker (C2040001_TT_TN_2019_1h)**							IN				
Copernicus CDS	CDS API	BCK	CC BY compatible	Satellite images SENTINEL 2	IN					IN	IN				
Provincia di Trento	WMS or direct download	BCK	CC BY 2.5 / CC BY 3.0 IT	High resolution aerial data (Provincia di Trento Ortofoto 2015)							IN				
Provincia di Trento	WMS or direct download	BCK	CC BY 2.5 / CC BY 3.0 IT	LIDAR aerial data (Provincia di Trento rilievo 2006/2007/2008)						IN	IN				
Università di Torino		BCK	Free for Highlander partners	climatic requirements of native and invasive forage species in pastures (UniTO)											IN
CIA		BCK	Free only for Highlander partners (due to privacy issues)	DON and AFLATOXIN values on common wheat and corn (CIA)									IN		
HDP	HWP	FOR		Map of potential forest distribution (CMCC)		OUT									
HDP	HWP	FOR		Indicators of human wellbeing due to climate conditions (CMCC)				OUT							
HDP	HWP	FOR		Indicators of meteo and hydrological droughts (CMCC)					OUT						
HDP	HWP	FOR		Indicators of rainfall erosivity and soil loss amount (CMCC)			OUT								
HDP	HWP	FOR		Early crop maps (ARPAE)	OUT										
HDP	HWP	FOR		Sub-seasonal irrigation forecasts (ARPAE)	OUT										
HDP	HWP	FOR		Crop water requirements projections (ARPAE)	OUT										
HDP	HWP	FOR		Indicators of animal wellbeing due to climate conditions (UNITUS)											OUT
HDP	HWP	FOR		Evaluation of animal wellbeing due to physiological and environmental conditions (UNITUS)								OUT			
HDP	HWP	FOR		Machine learning algorithm for fire prediction						OUT					

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				Map of potential forest biomass (FEM)							OUT				
				Map of potential livestock pasture biomass (FEM)							OUT				
				Functional biodiversity and impact of climate change (UNITUS, FEM)							OUT				
				Impact of climate change extremes on hydrology and productivity of forests (UNITUS, FEM)							OUT				
				climate indicators of grapevine cultivation attitude for wine production									OUT		
				correlation between forage availability in pastures and climate in the past and in the future (CIA)											OUT
				probability maps of changes in invasive forage species development and setting (CIA)											OUT
				risk class indicators of DON and AFLATOXIN development values on common wheat and corn related to climate changes (CIA)									OUT		
				probability maps of changes in forest species suitability									OUT		
				climate indicators for forest fire hazard										OUT	