**Concepción: Flash Flood Early Warning Indicator (FF-EWS)**

**Basin-aggregated rainfall exceedances**
- Given a point in the river drainage system, we can define the associated basin and calculate the rainfall that will be collected by the selected point.

**Warning thresholds built on basin-aggregated rainfall climatology**
- And a probability of exceedance is associated (return period in years).

**ERICHA Flash Flood Index using radar forecasts up to 6h ahead**
- Developments of the algorithms and tools to provide European hazard assessment using radar rainfall.

**European Demonstration of a rainfall and lightning induced Flash Flood Early Warning Tool**
- European Civil Protection
- Introduction of an Index of Flash Flood Hazard using NWP models into EUROPEAN FLOOD AWARENESS SYSTEM (EFAS)

**Operational integration in the European Flood Awareness System (EFAS)**
- Run under COPERNICUS and Operational tool at ERCC and EU Water Agencies

**Recent Advancements in Europe**
- High resolution Flash Flood Early Warnings based on radar nowcasting operational in EFAS (at ECMWF) from March 2017.