Since 2002, the Spanish Meteorological Agency (AEMET) Short-Range Ensemble Prediction System (SREPS), i.e. AEMET-SREPS, pioneered as a LAMESP multi-model in Europe, provides high performance probabilistic forecasts of all synoptic-meso-scale scale, giving added value to our deterministic HIRLAM suites by assessing predictability in the Short Range. Current research aims at the transition to meso-gamma scale: a future AEMET-Y-SREPS, but predictability issues at convective scales are not trivial. In this poster its history, applications and current settings are reviewed, as well as an outlook on-going work and perspectives. Research lines include:

- Close cooperation with GLAMEPS
- Sampling uncertainties: LETKF (ICs), SPPT (model), perturbations LBCs
- DA and verification: High Resolution observation operator (SEVIRI), MVIRI, SEVIRI
- Calibration: Extended Logistic Regression (ELR)
- The processing specific SREPS-grans
- Verification: Neighborhood, Feature-based (SAL, MODE...)