Joint session of LHC Top and Higgs Working Groups: $t\bar{t}W^{\pm}$ modelling in light of $t\bar{t}H$ measurements

- **Main Goal:**
  - Agree on the normalisation (for the time being) for the $pp \to t\bar{t}W^{\pm}$ process in the absence of NNLO QCD predictions
  - The number we trust most as closest to the true cross section
  - To become the new reference cross section in the Top and Higgs Working Groups

- **Other Goals:**
  - Understand the differences between the new FxFx merging and the NLO multi-jet merging including electroweak corrections in Sherpa for $t\bar{t}W^{\pm}$ production
  - Identify the impact of various effects (off-shell effects, sub-leading electroweak effects, EW corrections, parton shower, various multiplicity merging, etc) on differential cross section distributions for $pp \to t\bar{t}W^{\pm}$
  - Estimate the size of theoretical uncertainties for this process coming from these various effects
  - Continue to meet on a regular basis in a joint setup (LHC Top and Higgs working groups) to discuss these various effects for the $pp \to t\bar{t}W^{\pm}$ process
  - Start small subgroup studies to analyse these various effects