Snapshot: Baseline Assumptions for Models within the SUPREMA project

External drivers used in the baseline

- Exogenous variables and time horizon taken into account by each of the models of the SUPREMA family (detailed explanations below)

Drivers	AGMEMOD		CAPRI		GLOBIOM		IFM-CAP	MAGNET		MITERRA
GDP & Population (Source and Coverage)	DG AGRI MTO	2030	DG AGRI MTO	2030	DG ECFIN GEM-E3 (EU) SSP Data-base (RoW)	2050	**	SSP Data-base	2020-2050 / 2100	**
	(as GLO-BIOM) *	2030 - 2050	(as GLO-BIOM)	2030 - 2050						
Output prices	x (world market price projections)		x (from AGLINK and GLOBIOM)				x			
Oil price***	x		****					possible		
Inflation	x		x					possible		
Technologi-cal change	x		x		x		x	x		
Exchange rates	x		x		x			x		
Time Horizon	2030 / 2050		2030 / 2050		2050		2030	2030 / 2050		

* To be developed ** MITERRA and IFM-CAP are implicitly related to DG AGRI MTO through links with CAPRI and AG-MEMOD *** AGMEMOD, CAPRI: generally non-agricultural input prices are assumed to be constant in real terms (only inflation increase) **** In CAPRI the oil price in the baseline is not explicit

Technological change assumptions

- Technological change is generally included as yield trend increases aligned to the DG AGRI MTO for the EU in all models except AGMEMOD (specifies explicit yield function)
- Some models include endogenous technology adoption (e.g. CAPRI for mitigation tech-nologies for non-CO2 GHG), but also other technology representations possible

Diet and consumer behaviour

- Developments in future dietary preferences can be captured by income elasticity values or external drivers like calorie intake (GLOBIOM, MAGNET, CAPRI)

Policy representation in the baseline

- Climate policy representation is covered via bioenergy assumptions and mitigation targets either as hard constraints or as equivalent carbon prices (GLOBIOM: prices for CO2, N2O and CH4 emissions from agriculture, forestry and other land use (AFOLU))
- MAGNET has a module for emission trading, renewable energy targets, biofuels mandates as well as carbon prices
- Generally, representation of agricultural policy in the RoW is not as detailed as for the EU (except MAGNET and GLOBIOM)