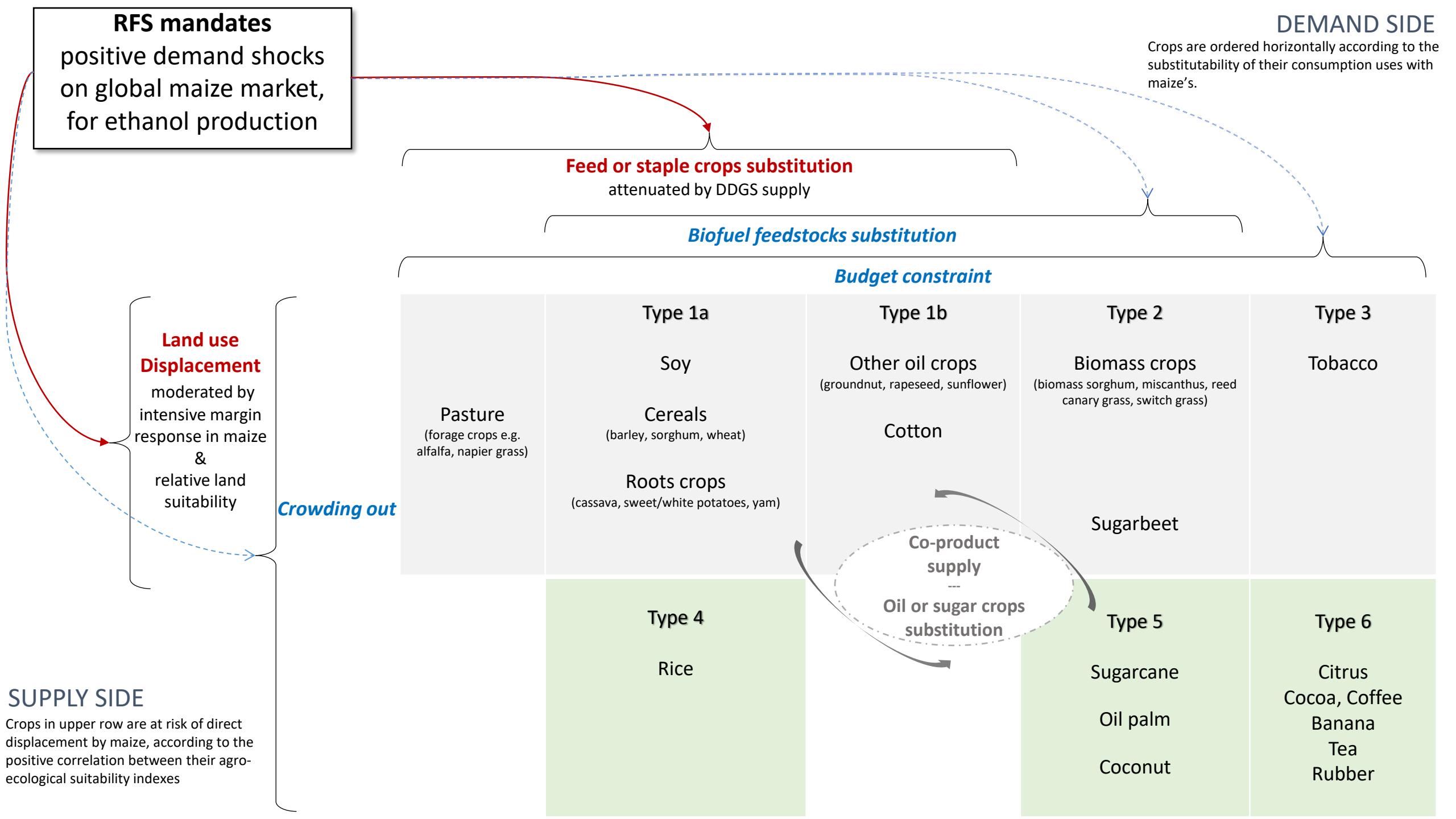
RFS mandates
positive demand shocks on global maize market, for ethanol production
DEMAND SIDE
Crops are ordered horizontally according to the substitutability of their consumption uses with maize's.
Feed or staple crops substitution
attenuated by DDGS supply
Biofuel feedstocks substitution
Budget constraint
Land use Displacement
moderated by intensive margin response in maize
&
relative land suitability
Crowding out
Pasture
(forage crops e.g. alfalfa, napier grass)
Type 1a
Soy
Cereals
(barley, sorghum, wheat)
Roots crops
(cassava, sweet/white potatoes, yam)
Type 1b
Other oil crops
(groundnut, rapeseed, sunflower)
Cotton
Type 2
Biomass crops
(biomass sorghum, miscanthus, reed canary grass, switch grass)
Sugarbeet
Type 3
Tobacco
Co-product supply

Oil or sugar crops substitution
Type 4
Rice
Type 5
Sugarcane
Oil palm
Coconut
Type 6
Citrus
Cocoa, Coffee
Banana
Tea
Rubber
SUPPLY SIDE
Crops in upper row are at risk of direct displacement by maize, according to the positive correlation between their agro-ecological suitability indexes