SUSTAINABLE G ALS







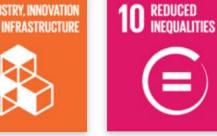






































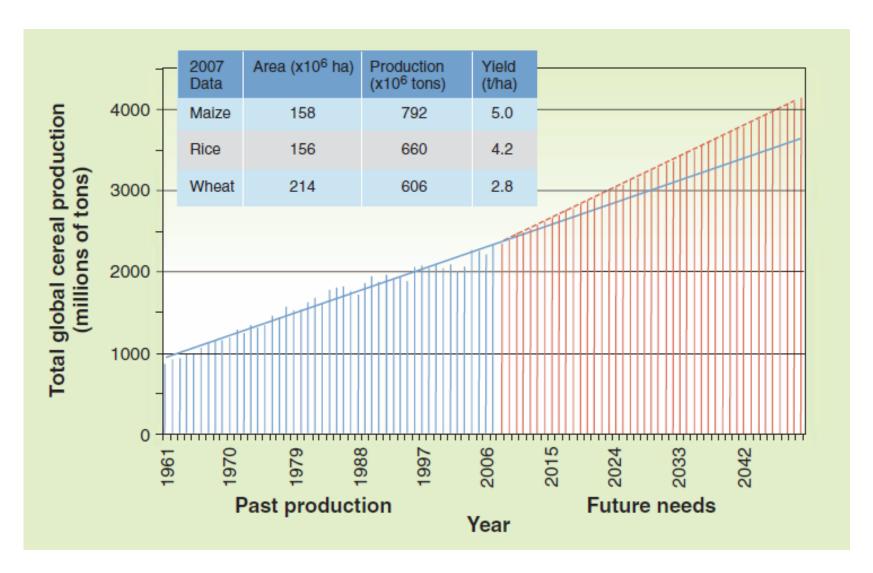
Points of Discussions

How GEOSS can/should contribute to SDGs

- To consider what we can do particularly under WG5/Agriculture & Food Security
 - To understand current and future perspectives of food production and consumption
 - To map current activities onto action items for SDGs
 - To prioritize current activities for SDGs
 - To discuss how agriculture related observations and data are important for SDGs
 - o Etc.

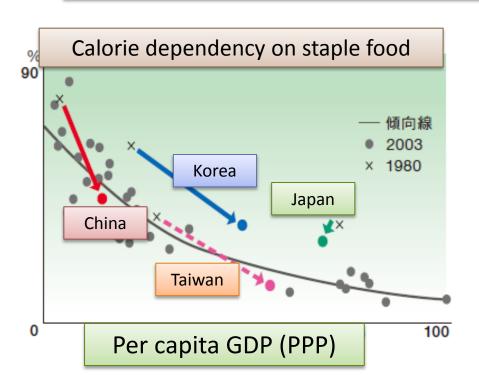


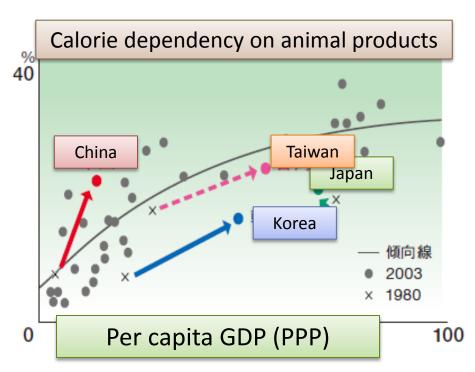
Food demand increases



Diet transition happens with economic growth

Production efficiency of animal product is much lower than staple food





Very inefficient meat production

	MI	ř •	Y	-		
	Milk	Egg	Chicken	Pork	Beef	Fish
Grain needed to produce 1kg of product (kg)	1.1	2.8	4.5	7.3	20.0	1.4
Nitrogen uptake (%)	30	30	20	10	5	40

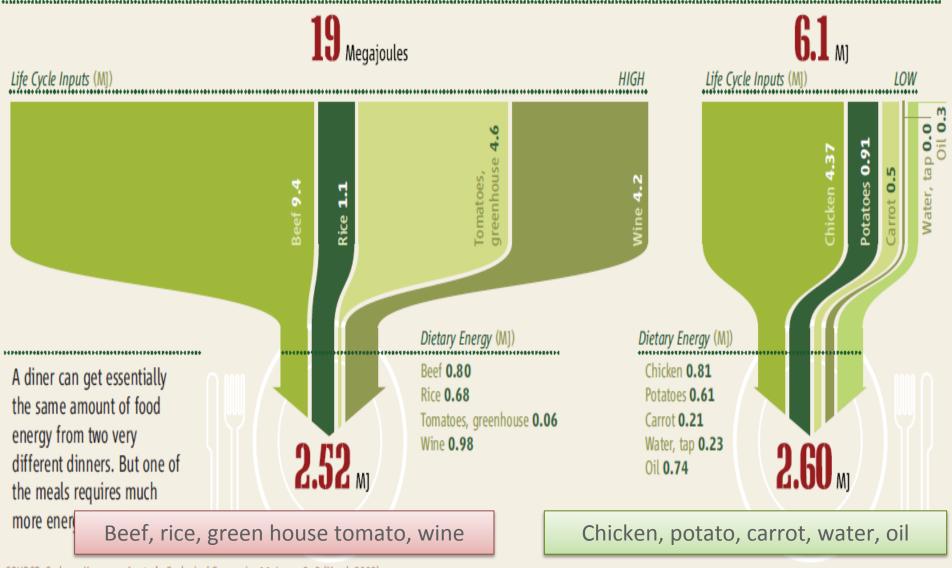
Water consumption for food production

Water needed to produce 1 kg of agricultural product

Products	Water (t)		
Rice	3.6		
Barley	2.6		
Wheat	2.0		
Corn	1.9		
Soybean	2.5		

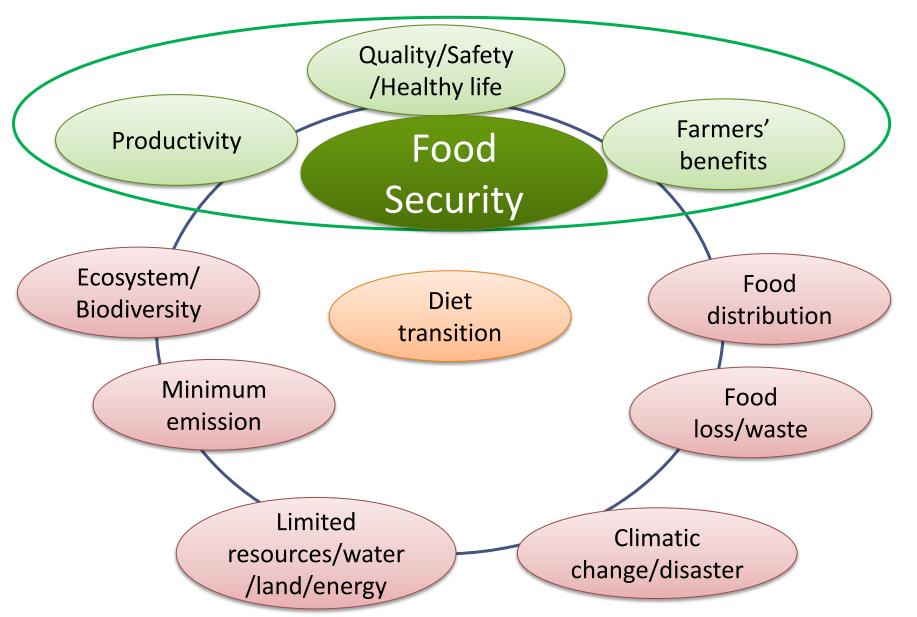
Products	Water (t)		
Beef	20.6		
Pork	5.9		
Chicken	4.5		
Egg	3.2		

TABLE FOR ONE: Which Is the Greener Plate?



SOURCE: Carlsson-Kanyama, A. et al., Ecological Economics 44, Issues 2-3 (March 2003)

Toward sustainable and sufficient rich food production



Food nowadays

- Food is not just something to feed us anymore
- Food is a key factor to enjoy society development
- Food is a basis of healthy and quality life
- Food is a part of the back bone of culture