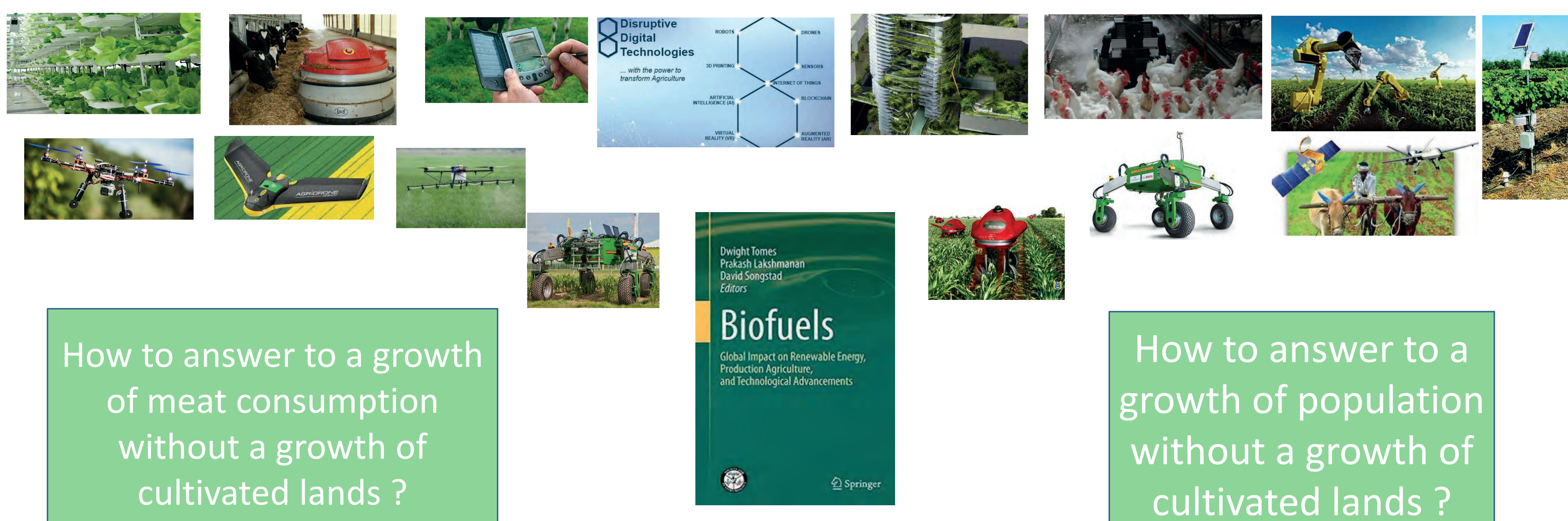


Mutation of agriculture and emergence of a new agri-technical culture ?

Michel J.F. Dubois

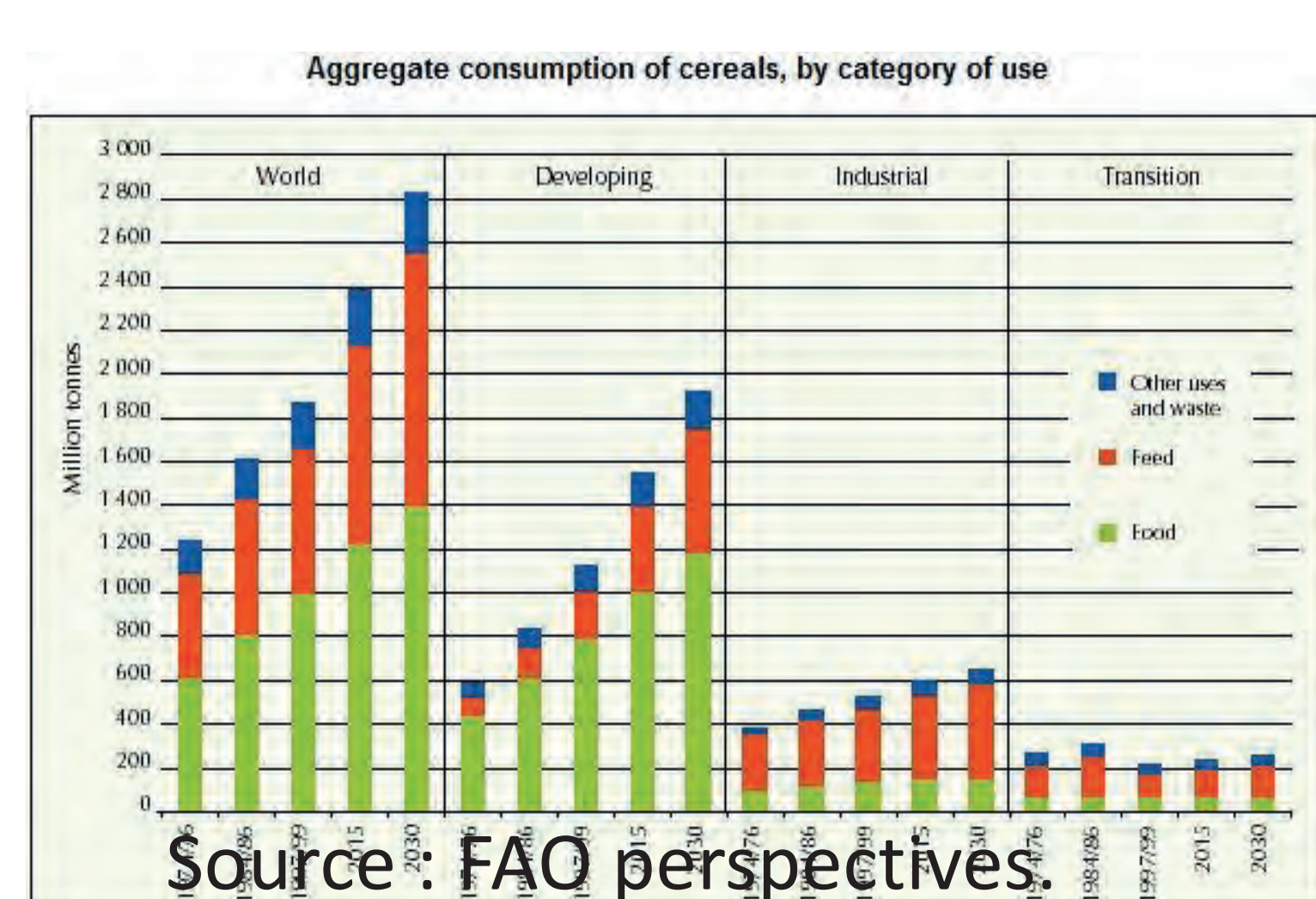
Global meaning : situation of world agriculture suggests that a new agricultural revolution is emerging associated with a new agri-technical culture

Important challenges for the future of agricultures : Areas cannot be increased and so the only way is to increase yields. But together with these needs, the demands of societies are to protect environment and not to focus on productivity. The end of the relationship between agricultural production and what is expected from it leads to a paradigmatic crisis that challenges the way through which problems are conceived. We are moving towards a new technical system in agriculture and consequently towards a new agricultural technical culture. Relationship between sciences, production technics and agro-ecosystems have to be rethought.



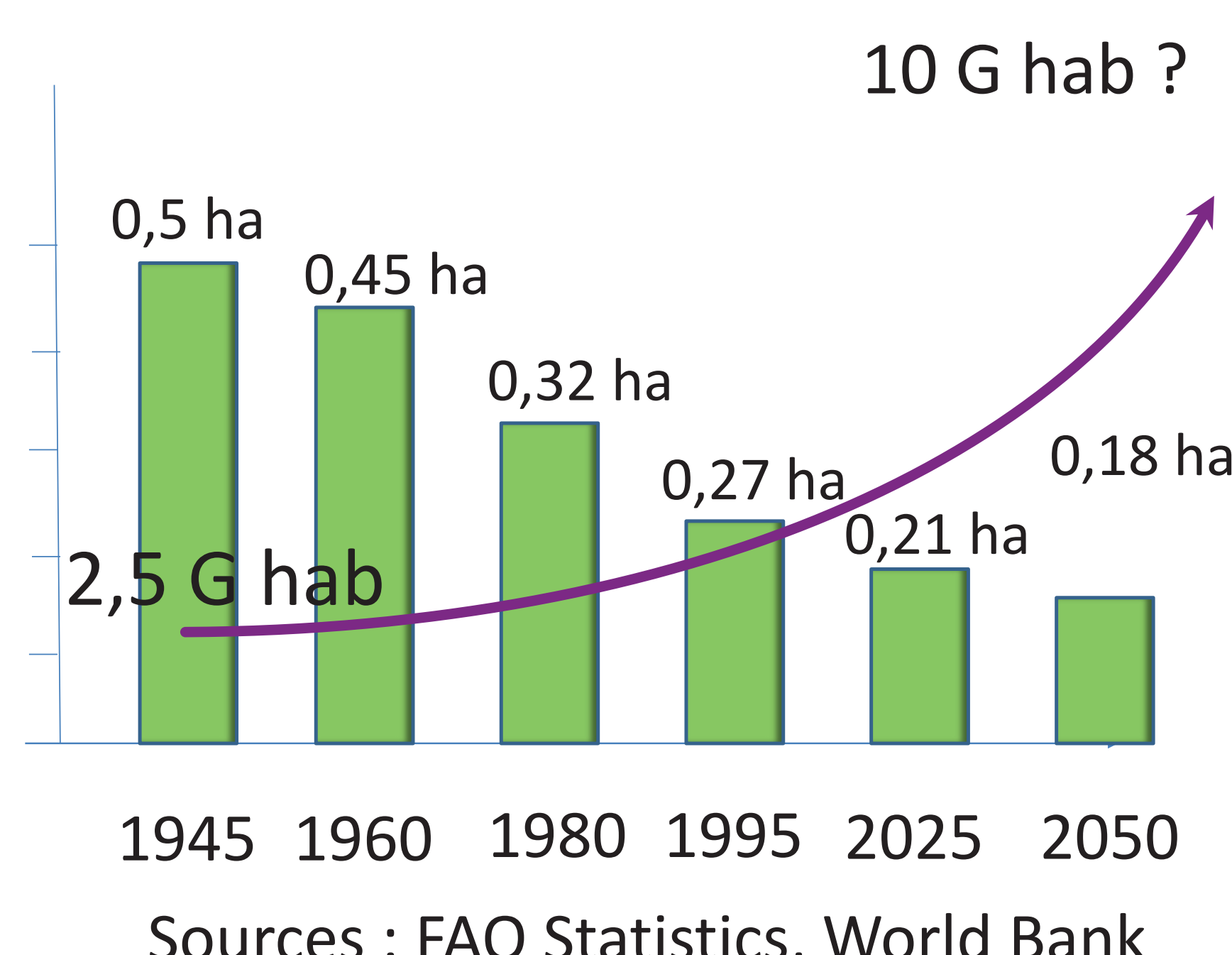
How to answer to a growth of meat consumption without a growth of cultivated lands ?

How to answer to a growth of population without a growth of cultivated lands ?



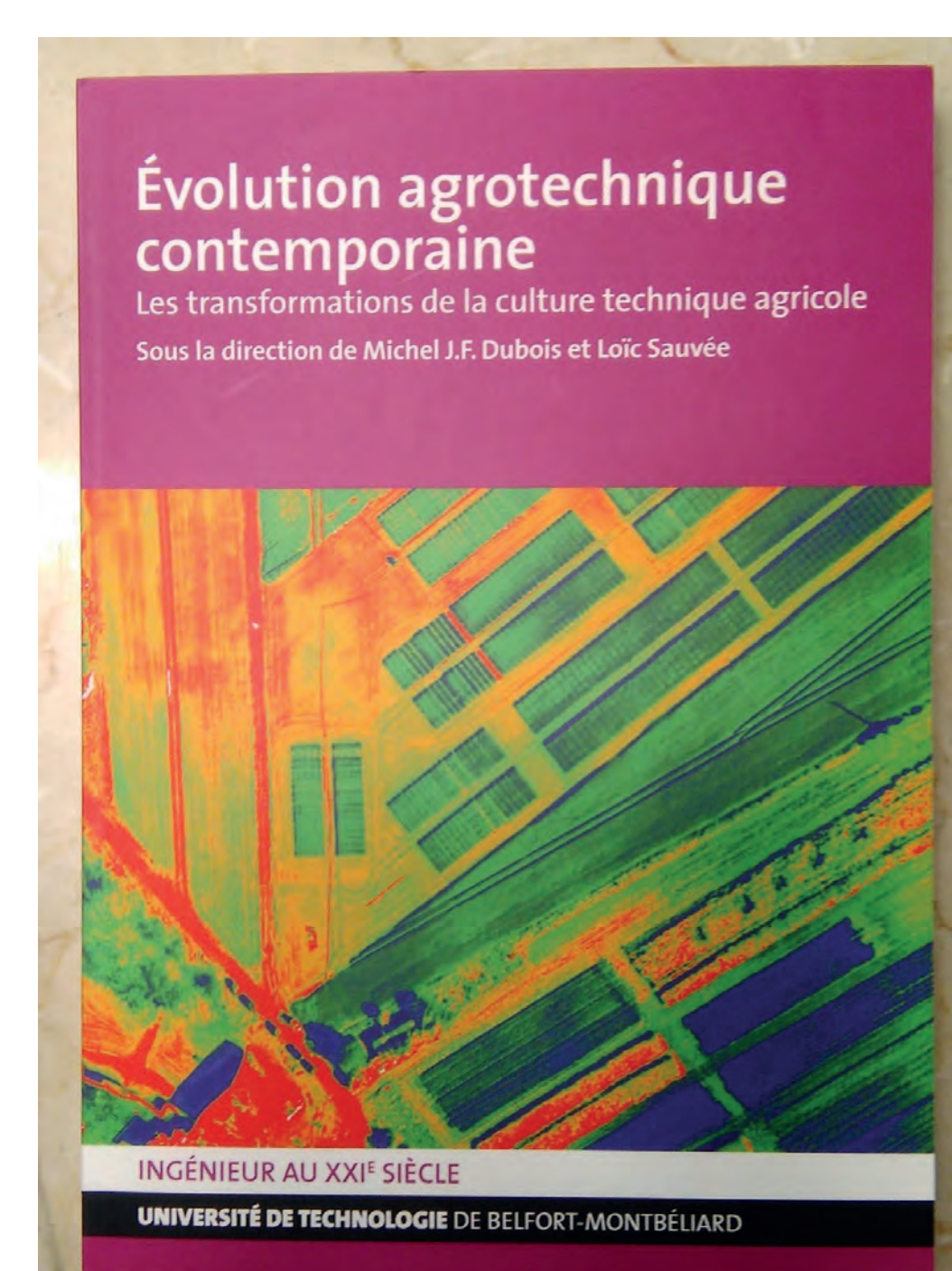
If you're using first-class land for biofuels, then you're competing with the growing of food. And so you're actually spiking food prices by moving energy production into agriculture.

— Bill Gates —



Emergence of new practices which seem to be more efficient and more sustainable

- New crop rotations
- Double cultures
- Cover crops
- Soil restoration
- Soil C increase
- Regenerative agriculture
- ...



All the new technics (high tech or agricultural practises) should be designed according to both an increase of production and a protection of soils and environment.

Farmers should be regarded as the heart and the support of this new agrarian technical culture.

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