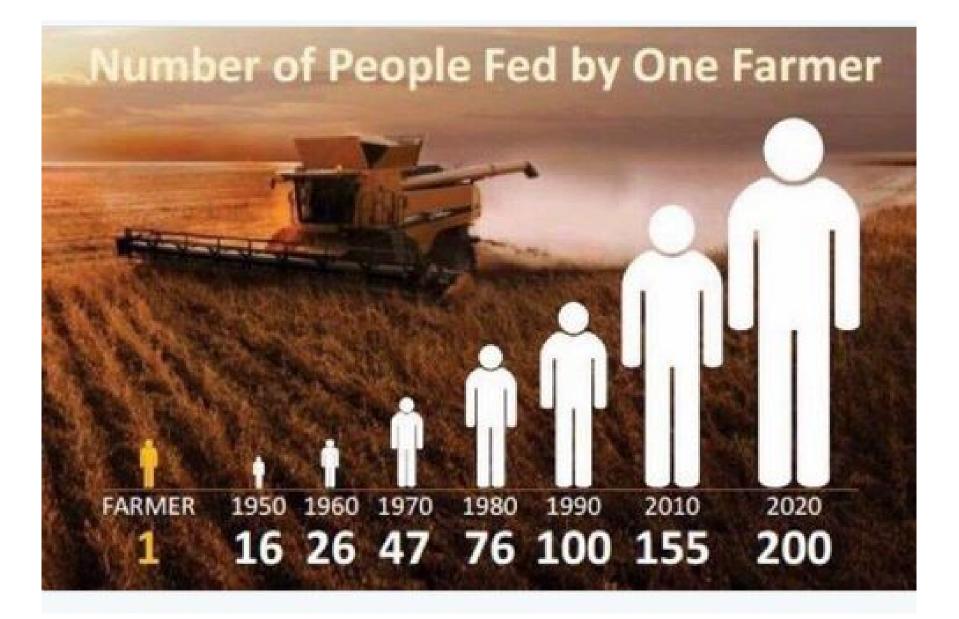
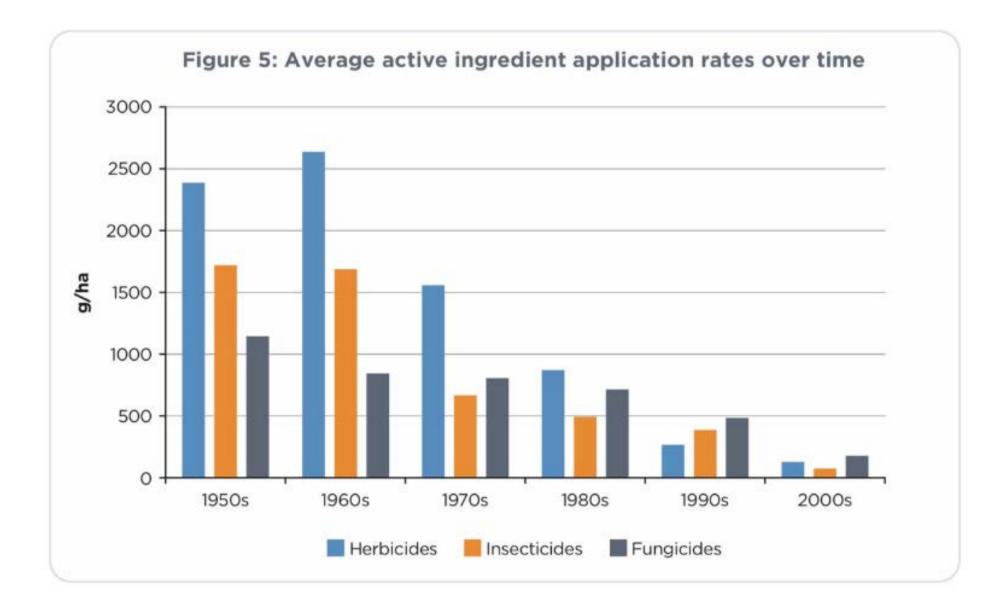
## AEIC 2020 Fall Meeting October 13-14

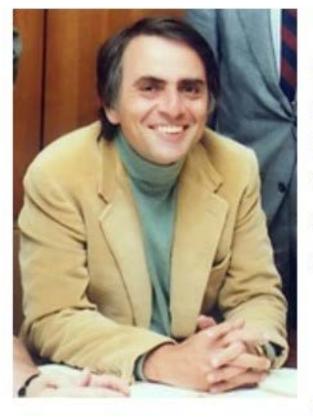
Anti-GMO Disinformation Campaign: Past, Present and Future

> Robert Wager M.Sc. Vancouver Island University

Past

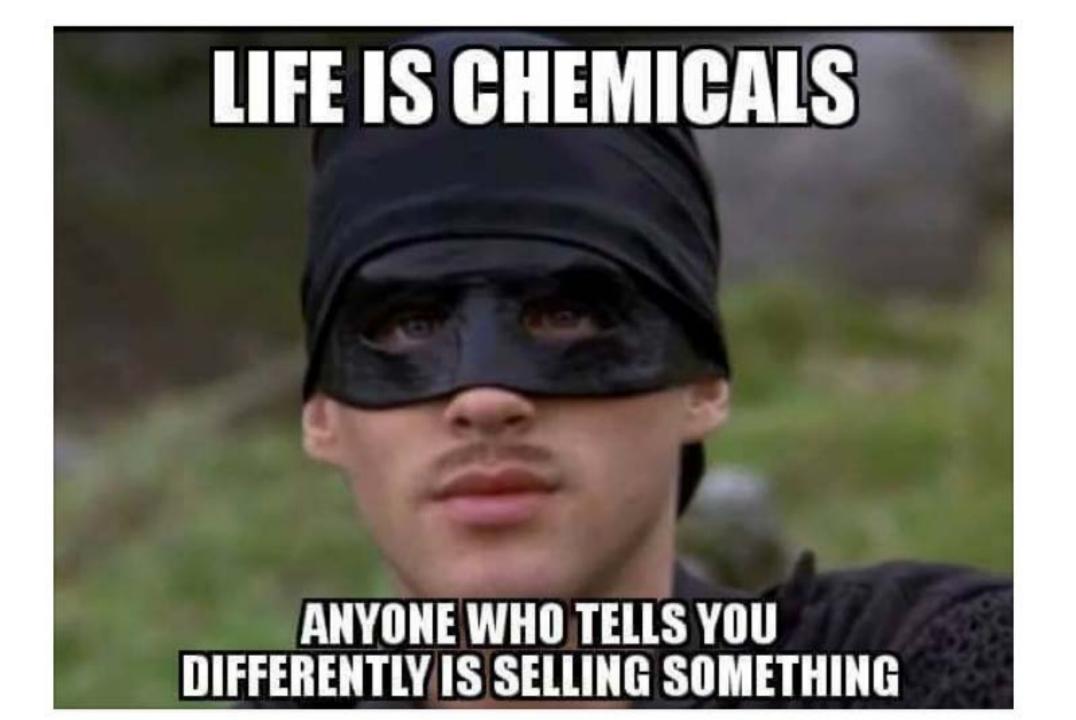






"We've arranged a global civilization in which most crucial elements profoundly depend on science and technology. We have also arranged things so that almost no one understands science and technology. This is a prescription for disaster. We might get away with it for a while, but sooner or later this combustible mixture of ignorance and power is going to blow up in our faces."

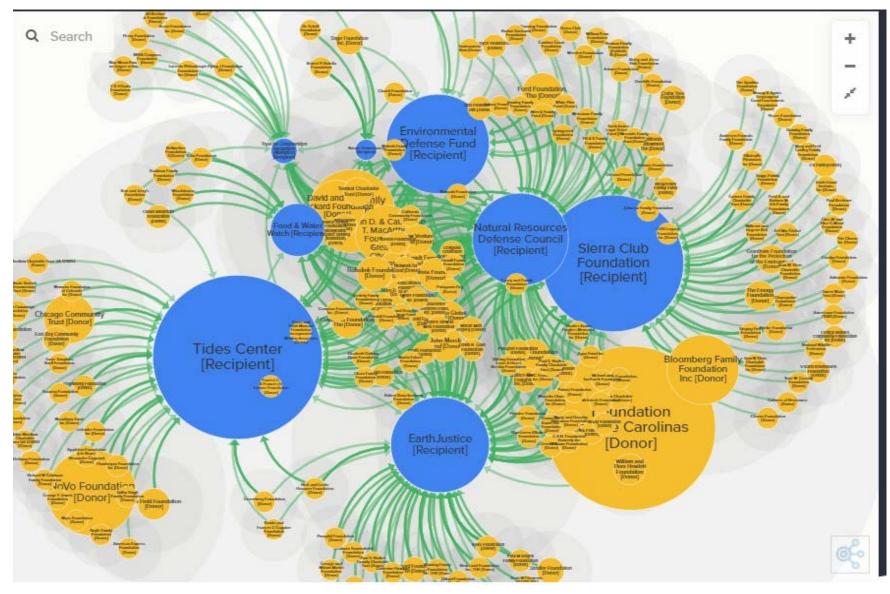
 Carl Sagan, The Demon-Haunted World: Science as a Candle in the Dark





How deep is the mud? Depends on who you ask.

### Genetic Literacy Project Anti Biotech Funding Tracker for North America



## Funding Tracker For Europe

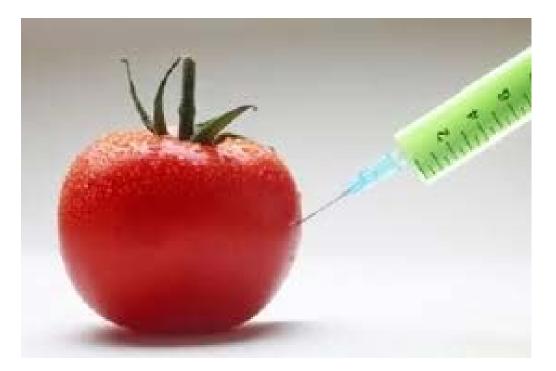
# EU

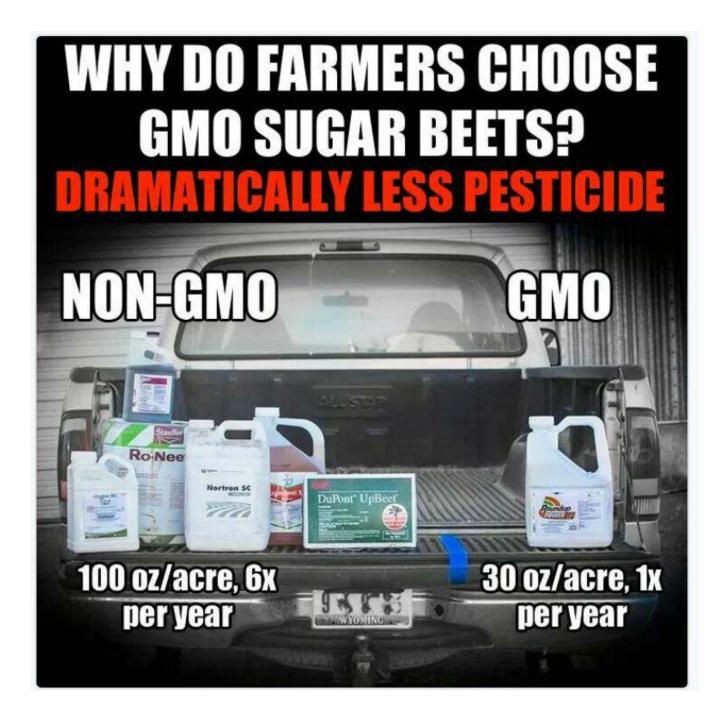
### 2014-2017 >11 Billion Euros to NGO's











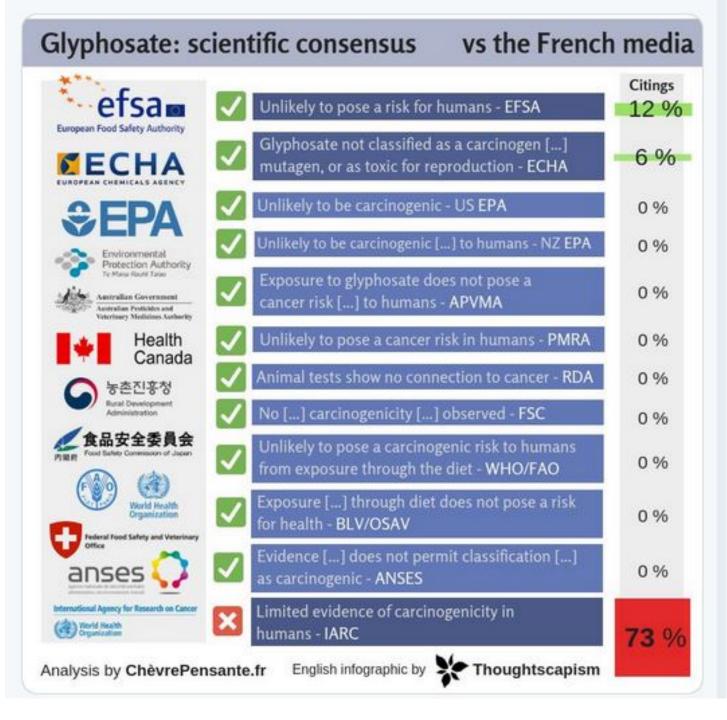


IARC MONOGRAPH ON GLYPHOSATE Q&A on Glyphosate Related Links

### IARC Monograph on Glyphosate



A Working Group of 17 experts from 11 countries met at the International Agency for Research on Cancer (IARC) on 3-10 March 2015 to review the available published scientific evidence and evaluate the carcinogenicity of five organophosphate insecticides and herbicides: diazinon, glyphosate, malathion, parathion, and tetrachlorvinphos.



# Present

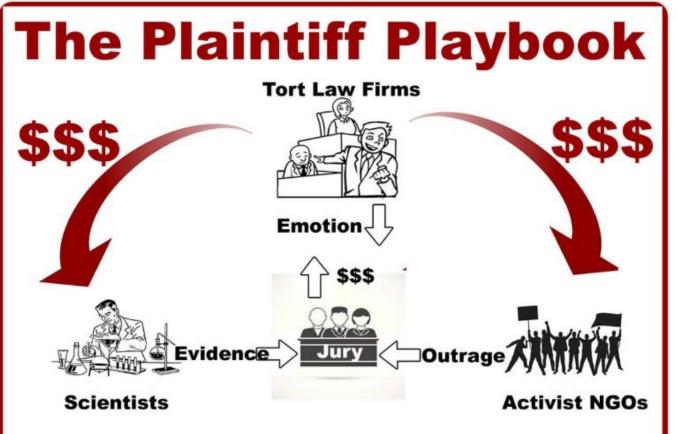




### **Tort Lawyers**







Pay scientists to create your evidence; Pay activists to create public outrage; Create drama on the courtroom stage; Collect \$200 Million. "Do not pass Go"!

www.risk-monger.com **#SlimeGate** 

### **Follow the Money!!! Maharishi cult and Scientologists** are main anti-agritech campaigners



Litigations are only going to increase unless:

- 1) Learn from glyphosate trial mistakes
- Ensure stories are part of defence (not just numbers)
- It's emotions, coupled with facts that will win the day.



# Utter Madness

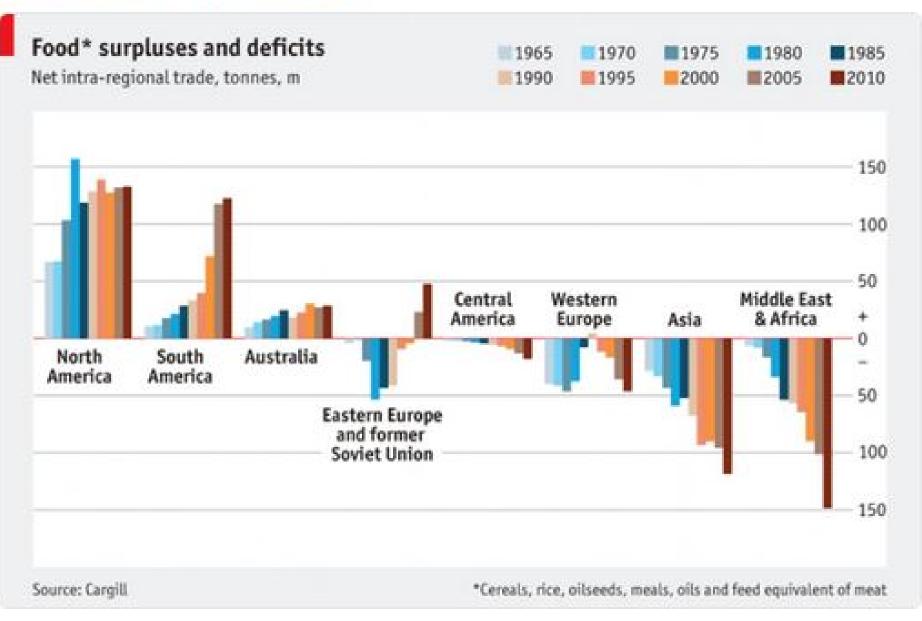
- Court of Justice of the European Union (CJEU) ruled that organisms resulting from new mutagenesis techniques (NPBTs) fall within the scope of the EU GMO legislation
- French Decree 20.0268

All in vitro mutagenesis breeding to be regulated (read banned)

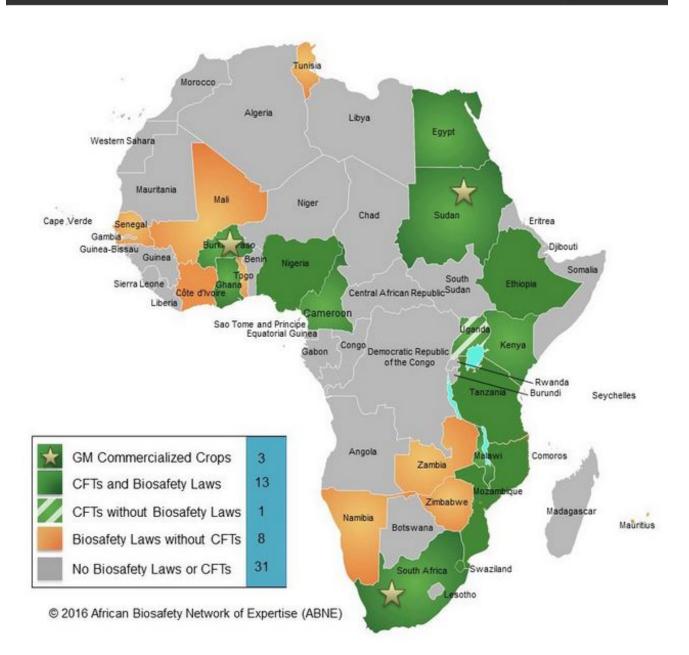


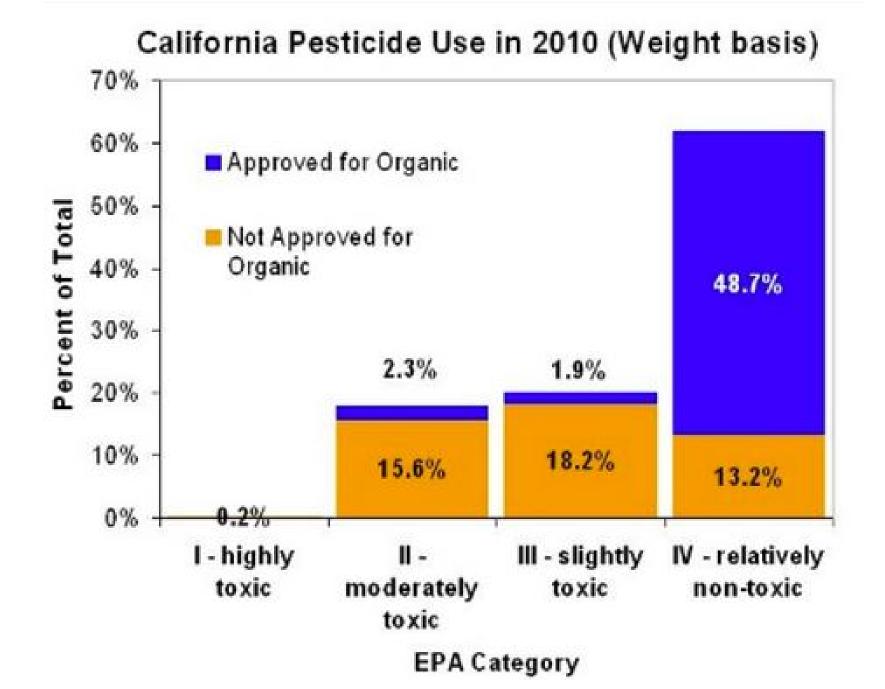
# Future

### economist.com/blogs/feastand...



O M. O.









Fonciation Charles Léopold Mayer por la Pogels to Frienne An agroecological Europe in 2050: multifunctional agriculture for healthy eating

N°09/18 SEPTEMBER 2018

Findings from the Ten Years For Agroecology (TYFA) modelling exercise

Xavier Poux (AScA, IDDRI), Pierre-Marie Aubert (IDDRI)

With contributions from Jonathan Saulnier, Sarah Lumbroso (ASCA), Sébastien Treyer, William Loveluck, Élisabeth Hege, Marie-Hélène Schwoob (IDDRI)

#### AGROECOLOGY: AN AMBITIOUS AND SYSTEMIC PROJECT

Jointly addressing the challenges of sustainable food for Europeans, the preservation of biodiversity and natural resources and the fight against climate change requires a profound transition of our agricultural and food system. An agroecological project based on the phasing-out of pesticides and synthetic fertilizers, and the redeployment of extensive grasslands and landscape infrastructure would allow these issues to be addressed in a coherent manner.

#### AN ORIGINAL MODELLING OF THE EUROPEAN FOOD SYSTEM

The TYFA project explores the possibility of generalising such agroecology on a European scale by analysing the uses and needs of current and future agricultural production. An original quantitative model (TYFAm), linking on a systemic manner agricultural production, production methods and land use, makes it possible to analyse retrospectively the functioning of the European food system and to quantify an agroecological scenario by 2050 by testing the implications of different hypotheses.

#### PROSPECTS FOR A LESS PRODUCTIVE AGROECOLOGICAL SYSTEM

Europe's increasingly unbalanced and over-rich diets, particularly in animal products, contribute to the increase in obesity, diabetes and cardiovascular diseases. They are based on intensive, highly dependent agriculture: (i) synthetic pesticides and fertilizers—with proven health and environmental consequences; (ii) imports of vegetable proteins for animal feed—making Europe a net importer of agricultural land. A change in diet less rich in animal products thus opens up prospects for a transition to an agroecology not bound to maintain current yields, thus opening new fields for environmental management.

#### SUSTAINABLE FOOD FOR 530 MILLION EUROPEANS

The TYFA scenario is based on the widespread adoption of agroecology, the phasing-out of vegetable protein imports and the adoption of healthier diets by 2050. Despite an induced drop in production of 35% compared to 2010 (in Kcal), this scenario:

provides healthy food for Europeans while maintaining export capacity;
reduces Europe's global food footprint;
leads to a 40% reduction in GHG emissions from the agricultural sector;
regains biodiversity and conserves natural resources.
Further work is needed and underway on the socio-economic and policy implications of the TYFA scenario.

#### SUSTAINABLE FOOD FOR 530 MILLION EUROPEANS

The TYFA scenario is based on the widespread adoption of agroecology, the phasing-out of vegetable protein imports and the adoption of healthier diets by 2050. Despite an induced drop in production of 35% compared to 2010 (in Kcal), this scenario:

# Admit 35% Drop in production

Institut du développement durable

et des relations internationales

75337 Paris cedex 07 France

27, rue Saint-Guillaume



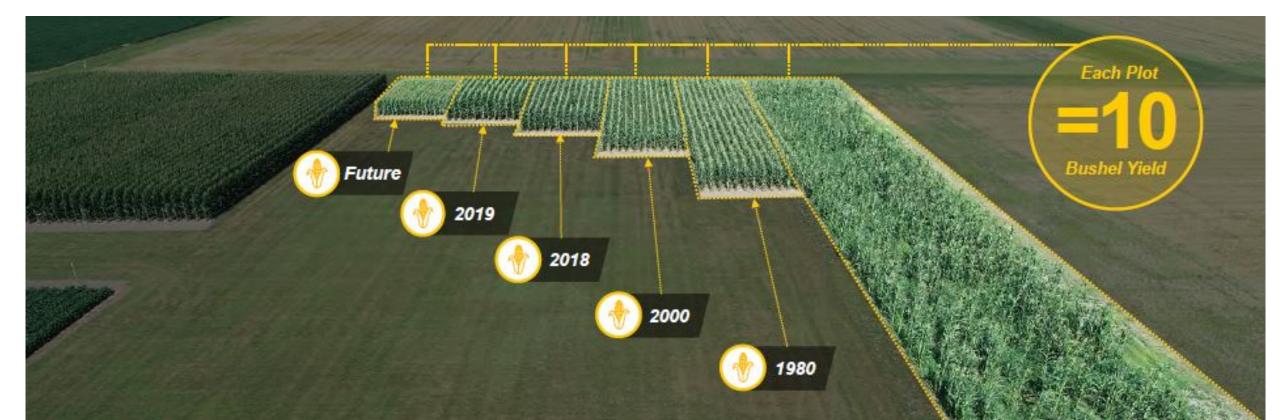
## 1951: 10,000 POUNDS OF PIG Pancreases make 1 Pound of Insulin

## TODAY: Genetically Engineered Bacteria Produce Animal-Free Insulin



What canola fields really look like without neonics: Left has not been treated, while the right has. (Image credit: Gregory Sekulic, Canola Council of Canada Agronomy Specialist)





1940

## **Producing Better**

The history of corn production plot demonstrates the great strides we have made in producing more with less, and the opportunity we have to continue to "produce better" through tailored solutions that drive us toward our reduced environmental impact commitment while meeting the needs of a growing population on an increasingly hotter planet.

BAYER



#### Home > Food, farming, fisheries > Food Safety >

### Food Safety

#### FARM TO FORK STRATEGY

Sustainable food production

Sustainable food processing and distribution

Sustainable food consumption

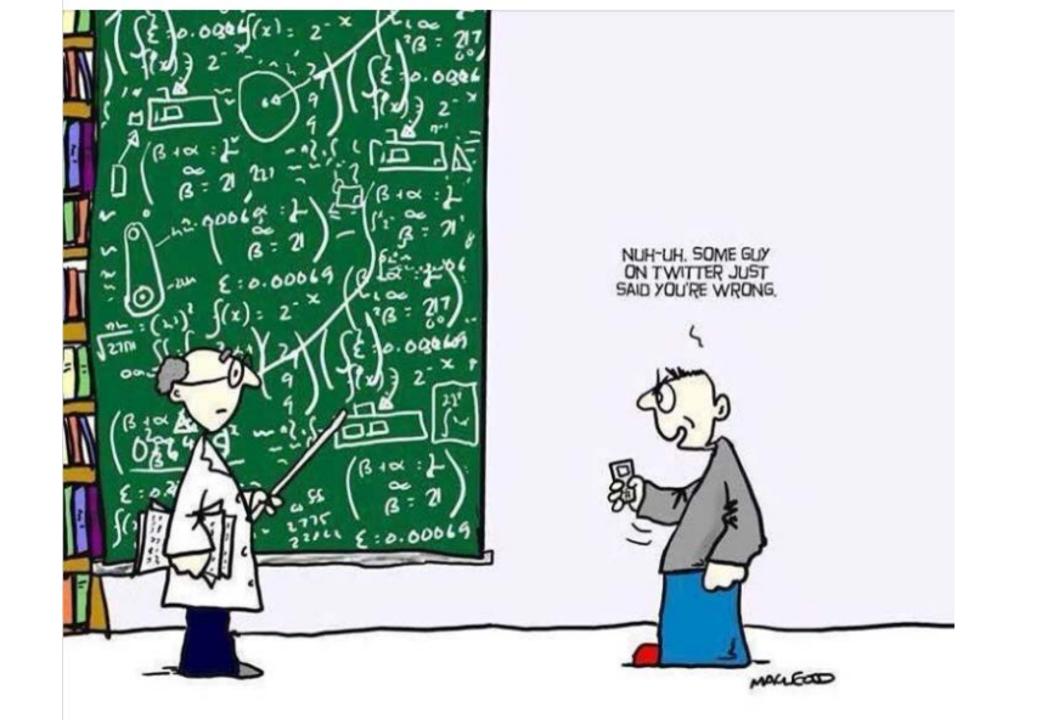
Food loss and waste prevention

Farm to Fork conference

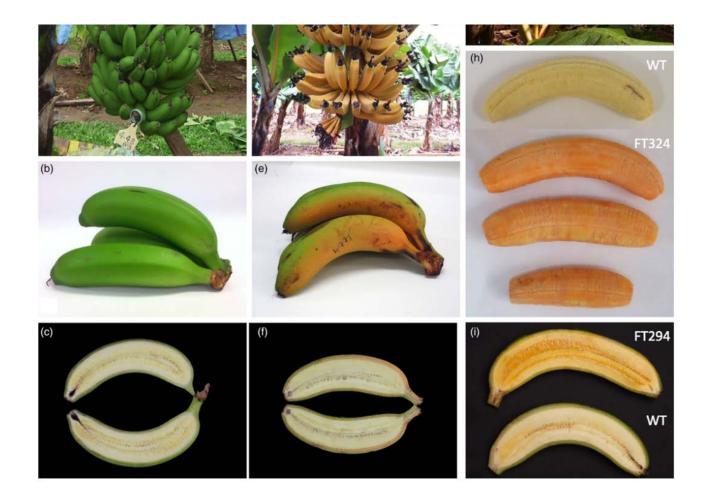
# Farm to Fork Strategy – for a fair, healthy and environmentally-friendly food system

#### Strategy

- Communication A Farm to Fork strategy for a fair, healthy and environmentallyfriendly food system (+Annex)
- The Farm to Fork Strategy Publication











- Get way more involved in public discussions (on-line in particular)
- Town Hall Meetings
- Dept. of Social Media?
- Do not forget about MSM (for foreseeable future)-Op/Eds, LTTE's
- Never let a inaccurate critical story go unchallenged
- Spend money to counter the Billion\$ spent by Anti-GMO Industry (Tort, antivax, eNGO's, natural food lobby)

## Thank you for listening

