

TRansition paths to sUstainable legume-based systems in Europe

## Introducing the Market and Policies Sessions

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Legume markets – The TRUE approach: Holistic, complex, integrated and forward-looking



# **Pulse Ingredient Product Launches**



Share of dry pulses area in total arable land, 2015 (%)



## EU legume markets

#### About the market:

- Dynamic
- Local and global
- Supply chains essential for competitiveness
- Profitable?

#### Market drivers:

- Consumer demand
- Protein for feed
- Environment and climate
- Business opportunities
- EU legume strategy

Source: Eurostat (online data code: apro\_acs\_a)

Data not available

## SUSTAINABLE PROTEIN PRODUCTION

- Given the problems and contradictions of food systems
- Legumes became protagonists of food policy debates: meat analogues, #IYP2016, Protein Transition, Protein Challenge 2040, Green Protein Alliance, FOOD2030, Soya Declaration
- Policy Paradox: Policy that supports legume-based food production failed to increase legume-based diets
- Which policy innovations could help transition?

#### CAP reform: From sustainable feed to sustainable food

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Europe's imports of say from Brazil contribute to deforestation, loss of biodiversity and food insecurity. [Lima Pix/Filckr]

The German-Hungarian 'Soya Declaration' finally gets us talking about what matters in CAP reform, write Olivier De Schutter, Oscar Rivas and Karin Nansen.

Olivier De Schutter is UN special rapporteur on the Right to Food (2008-2014) and co-chair of the international Panel of Experts on Sustainable Food Systems (IPES-Food). Oscar Rivas, former Environment Minister of Paraguay, Xarin Nansen, chair of Friends of the Earth International & founding member of REDES/ Friends of Earth Uruguay.

## POLICY INNOVATIONS

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- Vegetarian option in canteens
- Legumes in food plate

Hodmedod's

 Pulse & Grain Pioneers in UK: top quality ingredients and delicious foods (fava bean, black badger peas)

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# Which policies would help increasing the production?

- Beus et al 2013: integrated approach with greening measures, investment in research, constraints on the use of synthetic nitrogen fertilizer
- Legume Futures Reports (Helming et al. 2014., Topp et al. 2014): international trade and climate-change mitigation are likely to have the most significant effect



## HOW TO ENGENDER POLICY INNOVATIONS

POLICY INCENTIVE • TRADE accept a short decline in yields for long term improvement / zero tar-iffs on soy imports / too cheap meat and animal products / inaction in level BEHANOUN products / inaction in implementation / consumption of legumes / legumes are not fashion / lack of policy to include legumes to public food procurement / lack of policy to include legumes to farming systems / how goverments can understand the importance of legume based systems / CAP does not foster cultivation (greening is not sustainable) / production is not encouraged / make attractive to famres and consumers / soy bean import / import of GM crops / inconsistency of policy / short termism / local production of legumes / direct consumption of legumes (rather than feeding animals) / lack of incentives for growers / lack of infrastructure / appropriate scale of policy / no support from goverment / lack of specific legume policies / how to substitute meat and dairy products with legumes / awareness / CONSERVATION . policy disintegration across sectors / no support relative to the real importance in consumption / lack of subsidies to encourage growing / too much import / human health / encourage production and consumption / how to include legumes into EU support / many policies touch on particular aspects / pesticides / efficient resource use / environmental policies / improve diets / healthy eating policy / effective supply chains / need to align policies / not sufficient demand for local legumes / policy to support farming of legumes / not sufficiently profitable compared to other crops / static - market driven - demand for feed and food / nitrogen pollution (planetary boundaries) / climate change / industrial level production of soybeans vs local nutritional level / lack of proper labeling that promote legume consumption

MENTALITY,

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IALUE CHAIN. / agencies for agri business development / agri and health sectors / agri departments / CAP / civil servants / consumer associations / consumers / Defra / dietary associations / EC / EC / EC / EP / EU and national / EU and national / EU Council / EU level / EU parlament interest groups / farmers associations / food safety authorities / goverments at all levels / growers / health and environment / health departments / health policy / industrial farmers / industry / local and national / marketing / MEPs / national and EU level / national goverments / national goverments / Natural England / nutritionist associations / policy planners, who integrate policies for environment, healh, etc. / politicians / producers / sup-Ba

associations ATTINGAS AT

change consumption behaviour without hard instruments (levies on meat consumption) / how to change behaviour without losing voters / holistic understanding of added benefits or detriments along whole chains / account for externalities / cost effective production / nutritionally balanced legume products / consumer awareness and perception / what are the sustainability benefits / what are the real health impacts / health benefits (also of reducing animal protein) / landscape of national policies promoting legumes production and consumption / environmental benefits (GHG, ground water) linked to CAP / diet impacts / improve public health of population / drivers of innovation to introduce legume products to market - link to industrial policies / development of an EU legume action plan (connected to national action plans, strategies) / effects on biodiversity, soil, water, etc. / cost benefit analysis / historical examples of increasing production through policy / data on growers profitability / evidence on benefits / technologies to increase financial viability / data on market viability / knowledge from stakeholder counsultation / promote legumes vs meat/fish eating / accurate data on production and consumption / health benefits (also of reducing animal protein and dairy) / economic profit and nutritional value / sci- 🔰 ence based evidence on health aspects / previous legume projects data / health benefits / systems knowledge / environmental benefits / high quality food / existing data is not integrated, meta analysed / new data to fill gaps / drivers of supply and demand / diversity of legumes in EU / how to realise more profitable legume supported cropping systems / potential of local legume production with environmantal and health impacts / bottlenecks in where the the second se

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## SCIENCE-POLICY INTERFACE PULSE EUROPE

- Co-design in the elaboration of the research agenda
- Co-production as joint knowledge generation in various levels
- **Co-creation** of new governance solutions
- **Co-dissemination** and synthesis for facilitating the validation, application and reception of the results