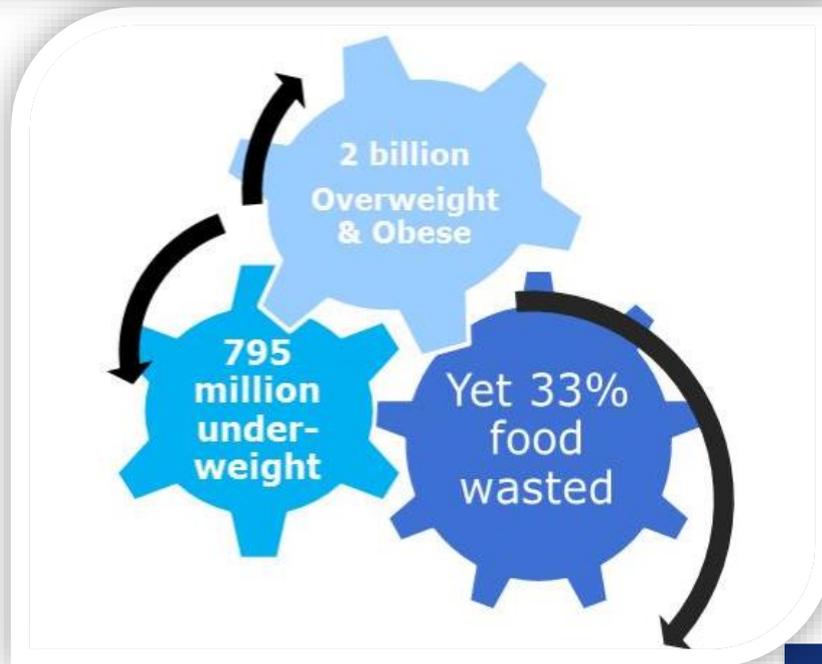




Introduction to the European Bioeconomy & outcomes from the SCAR 4th Foresight

John BELL, Director
'Bioeconomy' directorate
DG Research & Innovation

Nutrition & Food Systems face "perfect storm"





European
Commission

Support to projects





European Commission

The Food System



Good soil, water, land & biodiversity

Connecting land & sea

Food & Feed: trade, relations, culture, jobs, etc

Sustainable

Resilient

Responsible

Diverse

Competitive

Inclusive



FOOD 2030 Priorities



⇒ **Nutrition:** ↓ hunger & malnutrition, ↑ food safety & ↓ diet-related illnesses, and helping citizens adopt sustainable diets and healthy lives



⇒ **Climate:** Building a climate and global change-resilient food system



=> **Sustainability:** Implementing sustainability & circular economy principles across the whole food system – e.g. food waste, sustainable and resource-efficient food production



=> **Innovation:** ↑ market-creating innovation & investment, while empowering communities – e.g. FOOD PPP, FOOD KIC, regions and Agri-food Smart Specialisation, food in cities, synergies between funds (H2020, EFSI, RDF, etc.)

A simplified integrated approach

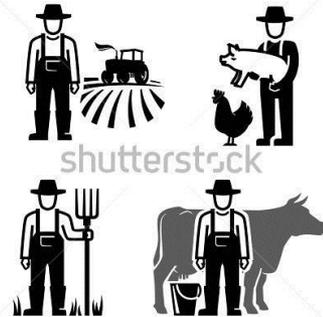


Policy makers

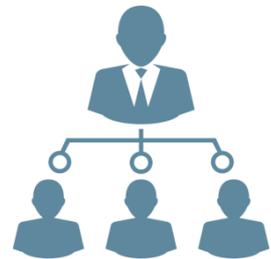


Academics

Farmers



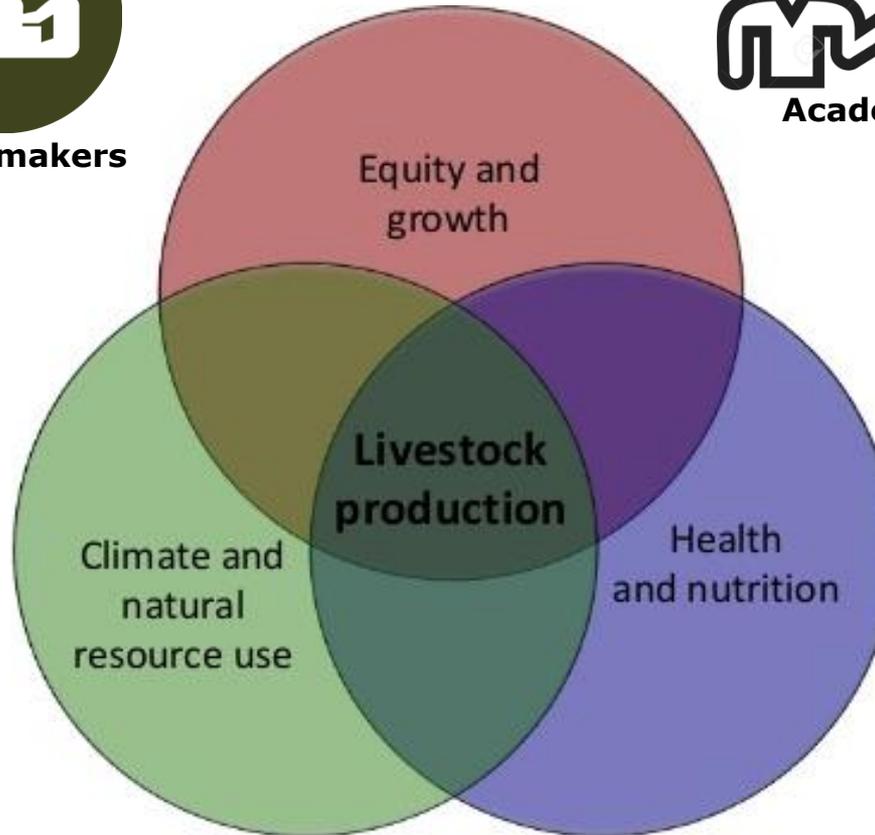
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Organizations



Scientists



Food industry

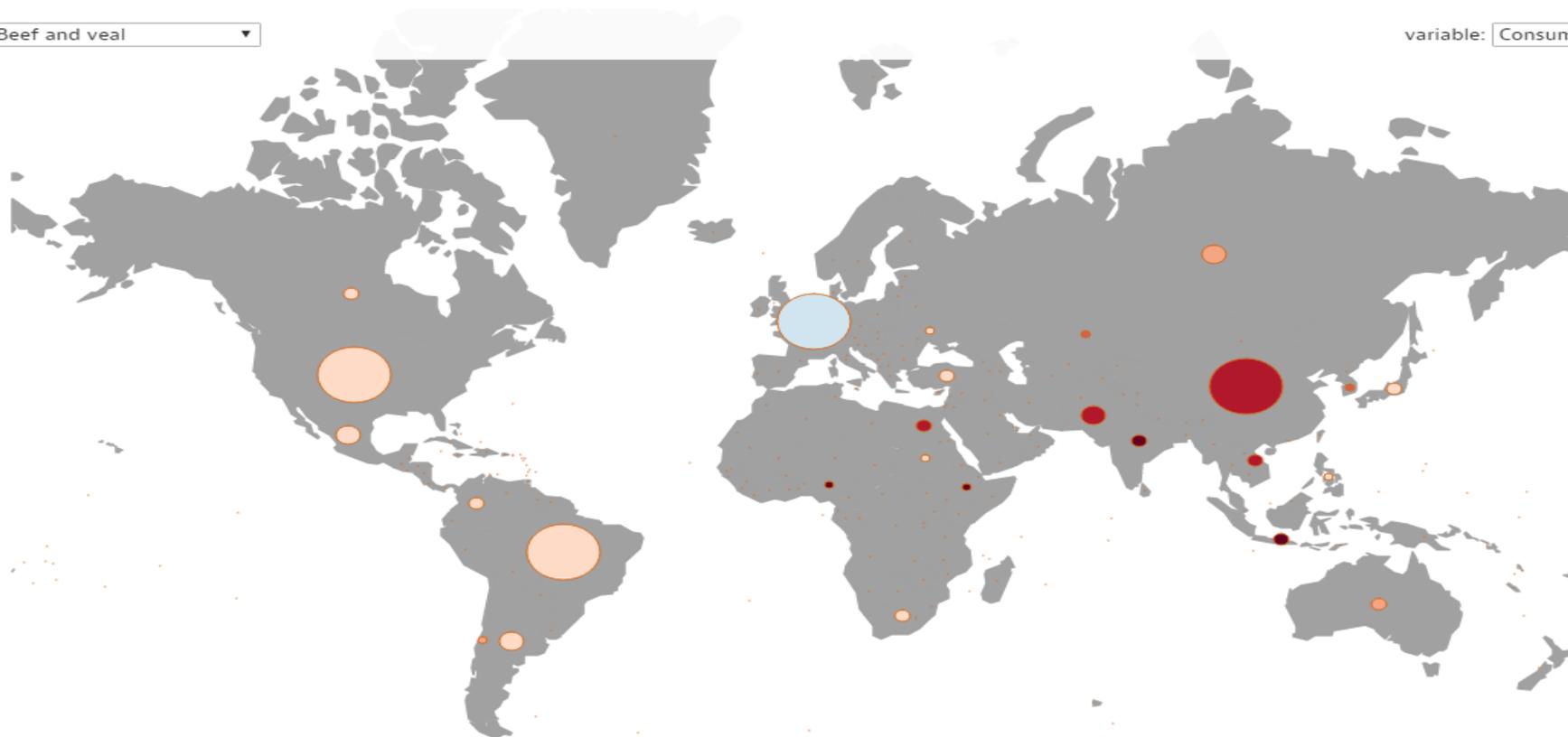


European
Commission

Beef & Veal consumption trends

ty: Beef and veal

variable: Consumption



Bubble size = Beef and veal - Consumption - % of global volume (2016)

Bubble color = % change (2016-2025)



Smart farming





Sustainable Agriculture, Forestry and Fisheries in the Bioeconomy A Challenge for Europe

4th SCAR Foresight Exercise

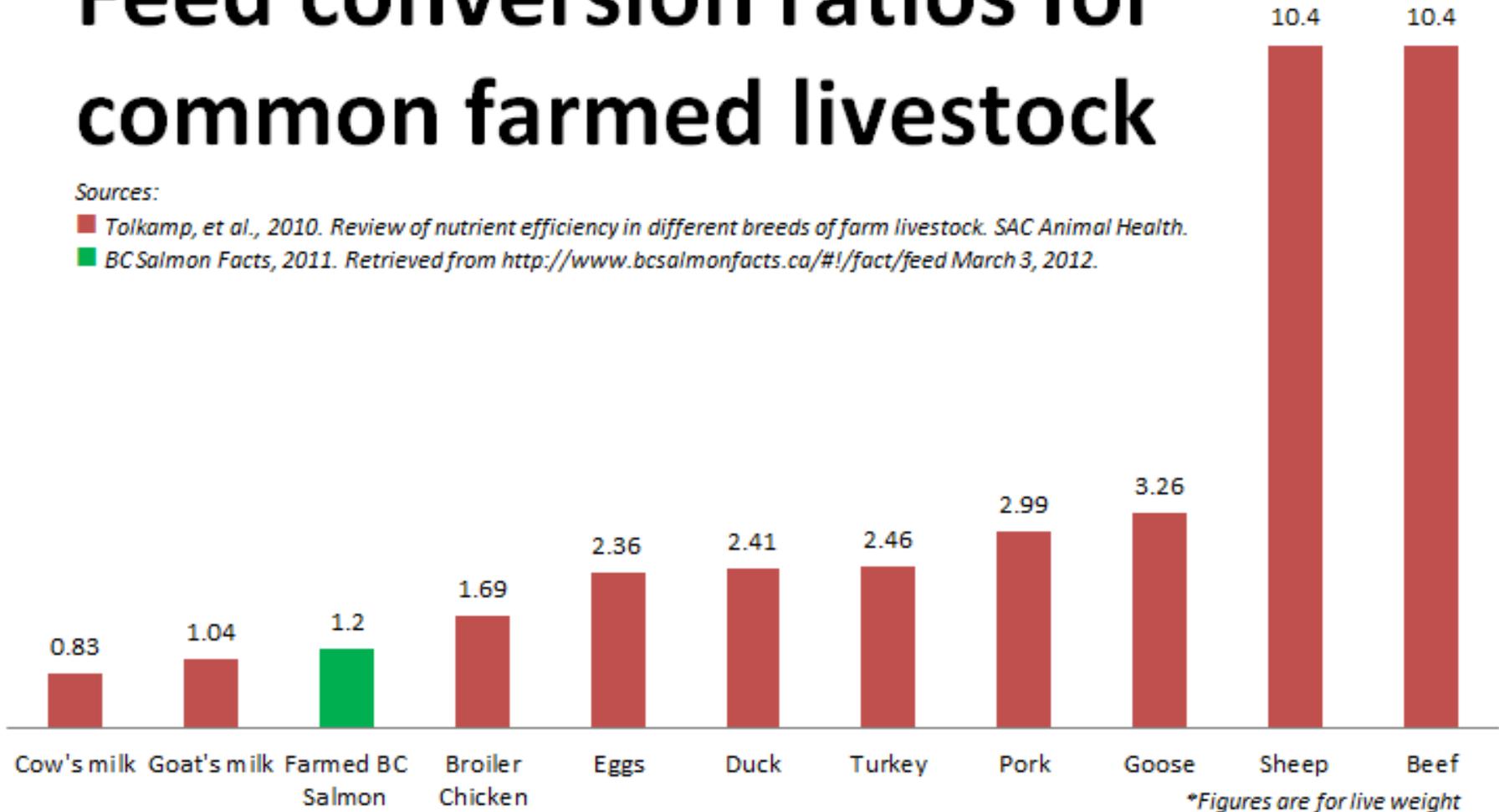


Feed conversion ratios for common farmed livestock

Sources:

■ *Tolkamp, et al., 2010. Review of nutrient efficiency in different breeds of farm livestock. SAC Animal Health.*

■ *BC Salmon Facts, 2011. Retrieved from <http://www.bcsalmonfacts.ca/#!/fact/feed> March 3, 2012.*



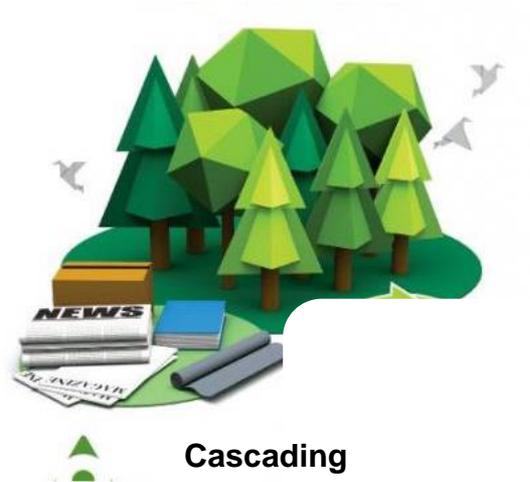


European
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Core elements of the future strategies



Sustainability



Cascading



Circularity



THANK YOU



John BELL, Director
'Bioeconomy' directorate
DG Research & Innovation

ATF annual Seminar
16th November 2016

HORIZON 2020