



Reflections on SUSFANS from the local perspective

SUSFANS Results for the Czech Republic

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Czech Republic participation in the SUSFANS project

- WP 2: Drivers and data: food consumption and diets
- WP 7: Modelling SHARP diets for EU consumers
 - the diversity and nutritional adequacy of diets in different EU regions

(CZ, DK, FR, IT)

- insight into the sustainability of diets of EU consumers
- SHARP model that delivers options for sustainable FNS diets by combining real-life individual food intake data with sustainability metrics
- WP 11: Impact and Dissemination





Czech Republic participation in the SUSFANS project







What is SUSTAINABLE and HEALTHY foods for Czech consumers ?



Source of data:

D2.1 Analysis of the web-survey on consumers' knowledge about nutrition, environment and the importance of relevant determinants





What are motives of food choices in Czech consumers ?

General food choice motive scores on a 7-point scale



Source of data: D2.3 Analysis of the online choice experiment...





What are motives of food choices in Czech consumers ?

Mean choice by benefits information (sustainable, health or both) and by country



In France sustainable information was a bigger driver of consumer choice than health information, whereas in The Czech Republic health information was valued much more.



Source of data: D2.3 Analysis of the online choice experiment...



Assessment of diets in four European countries







Harmonization and alignment dietary intake in Europe

- 1. Develop **common** set of **dietary guidelines**, described in D2.2. SUSFANS Protocol
- 2. Identical food classification system: FoodEx2 (EFSA)
- 3. Align dietary assessment methods
- 4. Use **national** Food Composition Data Bases





Harmonization and alignment dietary intake in Europe

- 5. Link S-indicators (GHGe, land use) to foods consumed in 4 countries; EU database with Sindicators linked to FoodEx2 codes=> SHARPdatabase
- 6. Modelling of **SHARP** diets
- 7. Link to other **SUSFANS models** (link via FoodEx2 with MAGNET, GLOBIOM, CAPRI, DIET)





Assessment of diets in four European countries – health aspects





- From Health metrics :
 - 1. Food-based dietary guidelines (FBDGs)
 - 2. Nutrient recommendations
 - 3. Energy balance





Common set of FBDGs



Foods to increase

Vegetables

- Fruits
- Legumes
- Nuts and seeds
- Fish
- Dairy

≥ 200 g/d ≥ 200 g/d ≥ 135 g/w (≥ 19 g/d) ≥ 15 g/d ≥ 150 g/ (≥ 21 g/d) ≥ 300 g/d

increase consumption increase consumption increase consumption increase consumption 2 times/w whose one fatty fish

Foods to decrease

- Red and processed meat
- Sugar sweetened beverages
- Cheese
- Alcohol (ethanol)
- Salt

≤ 500 g/w (≤ 71 g/d) ≤ 500 mL/w (≤ 71 mL/d) ≤ 150g/w (≤ 21 g/d) ≤ 10 g/d ≤ 6 g/d < 500 g/w (meat, excluding poultry)

<1 glass/d



Source:

D2.2 Protocol for defining the nutritional adequacy of total diets and foods consumed in EU countries



Food intake in the Czech Republic

FOOD INTAKE – Population ≥ 18 years





Food group	% adequate	Mean intake	Cut-off
Vegetables (g/d)	13	109	≥ 200
Fruit (g/d)	22	123	≥ 200
Legumes (g/d)	14	9	≥ 19
Nuts and seeds (g/d)	8	4	≥ 15
Fish (g/d)	18	14	≥ 21
Dairy products (g/d)	14	155	≥ 300
Red and processed meat, total (g/d)	36	118	≤ 71
Sugar-sweetened beverages (g/d)	61	137	≤ 71
Hard cheese (g/d)	58	25	≤ 21
Ethanol intake (g/d)	61	16	≤ 10





Nutrient intake in the Czech Republic

NUTRIENT INTAKE – Population ≥ 18 years

Nutrient	% adequate	Mean intake	Cut-off
Dietary Fibre (g/d)	18	19	≥ 25
Vitamin A RE (ug/d)	50	824	M ≥ 570; F ≥ 490
Vitamin D (ug/d)	2	4	≥ 15
Vitamin C (mg/d)	43	88	M ≥ 90; F ≥ 80
Calcium (mg/d)	44	777	≥ 750
Potassium (mg/d)	23	2746	M ≥ 3500; F ≥ 3100
SFA (E%/d)	20	14	0 - 10





Comparison of food groups intakes in four European countries

Adherence to national food-based dietary guidelines in 4 European populations, aged ≥ 18 years 2003-2008



Mertens et al (2018) Geographic and socioeconomic diversity of food and nutrient intakes: a comparison of four European countries. European Journal of Nutrition





Assessment of diets in four European countries – health aspects



Performance Metrics for Health in the four countries





Assessment of diets in four European countries – sustainability indicators

- Substainable indicators considered:
 - 1. Greenhouse gas emissions (GHGe)
 - 2. Land use



environmentally Sustainable, Healthy, Affordable, Reliable, Preferred





S-database for SHARP: from commodities to foods (DESIDE)



S-Indicators linked to foods as consumed for 944 FoodEx2 codes S-database is food-specific but not (yet) country-specific





Conclusions from a local perspective

- SUSFANS provided a comparison of **current diets** in four EU countries and identified potential triggers to move towards more balanced and sustainable nutrition,
- FBDG were not met and many nutritional inadequacies were observed for CZ diet,
- There was **lower environmental impact** of CZ diet composition compared to three other countries,
- Lowering the **excess of energy intake** is a key factor for reducing environmental impact of the diet,
- There is a consistence between health and sustainability benefits of changes in CZ diet towards FBDG.

