INTERNATIONAL CONFERENCE ON SUSTAINABLE FOODS Achieving the Sustainable Development Goals

July 24^{th -} 25th 2024 Bragança - Portugal

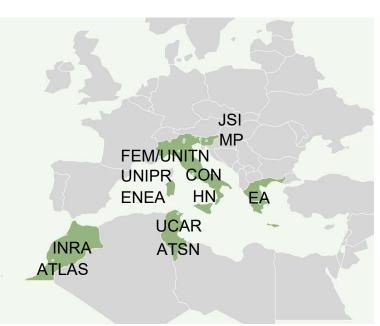


Novel food products for PROmotion of MEDiterranean LIFEstyle and healthy diet





Partners





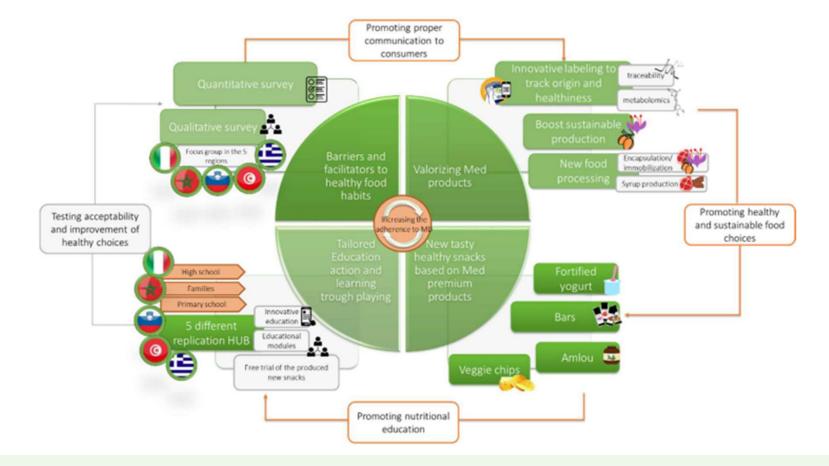
2 UNIVERSITIES 5 RESEARCH AND TECHNOLOGY INSTITUTES 5 SMEs







Key objectives



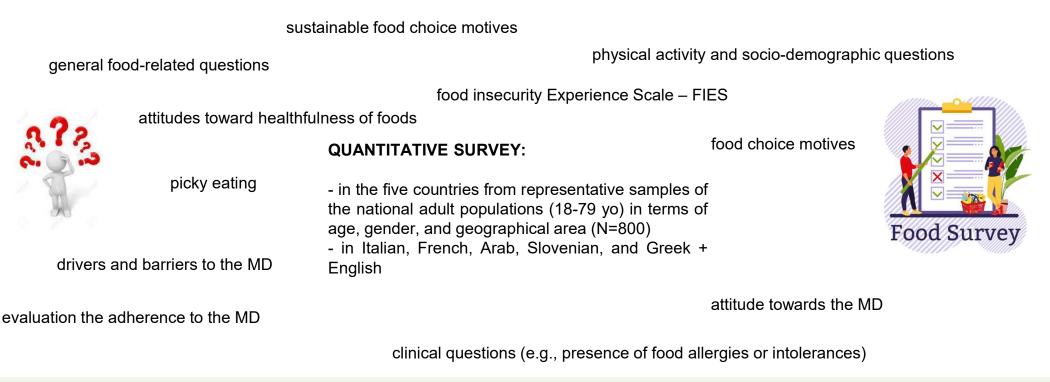




This project is part of the PRIMA programme supported by the European Union

Assessment of the causes of the discrepancy between consumer awareness of healthy eating and its practice

-> activities to increase consumers' awareness tailored explicitly to the countries involved, considering aspects like local traditions and habits







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Results

Biggi et al., Drivers and barriers influencing the adherence to the Mediterranean Diet: A comparative study across five countries, Nutrients, in press

Method: survey on 4,025 consumers (approx. 800 per country) representative in terms of age, gender, and geographical area (external agency, theory-based questionnaire in five languages)

Aim: to identify the factors affecting the adoption of the MD (main barriers and drivers)

Factors: (sustainable) food choice motives, attitude towards healthy eating and MD, adherence to the MD (MEDAS questionnaire), drivers and barriers to adopt MD, picky eating, anthropometric and socio-demographic variables

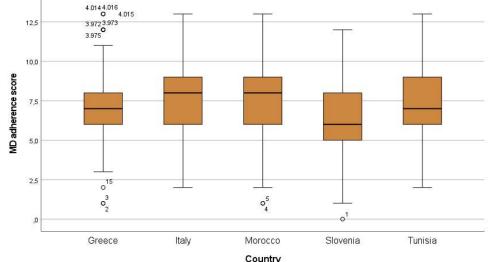
Results:

- Medium-to-low adherence to the MD in all countries (SLO lower, ITA and MOR higher)
- Predictors: Attitude towards healthfulness of foods (++), Attitude towards the adoption of the MD (+), Picky eating (-), food choice motives: (+) health, natural content, weight control, (-) price, convenience
- Barriers: Restrictiveness (e.g. insufficient food variety, difficult recipes, ALL), taste (MOR, SL), affordability (IT)
- Drivers: applicability tastier and more sustainable than other diets (ALL), health (SLO)





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PROMECLIFF

Improve the understanding and deepen the results from the quantitative research evaluating the gap between consumer awareness of healthy eating and its practice, including the adherence to the MD and healthy eating and use of local food products

QUALITATIVE SURVEY: snacking sustainability - three Focus Groups per country have been performed in Italy, Slovenia, beliefs Morocco, Tunisia, Greece familiarity perception of local foods - a common questionnaire/guideline in healthy eating the respective native language (Italian, Slovenian, Arab/French, Greek) perception of products with geographical indication

general guestions regarding food purchases and general habits

Promedlife snacks acceptability





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factors incentivising and preventing the adherence to the MD

Results

Method: we carried out three FGs per country, based on a **protocol** agreed with the partners (recruiting participants, conducting the focus group, guide for moderator, data analysis, and reporting)

Themes investigated: food choice drivers (focus on sustainability), involvement of participants in healthy eating and local food (including snacking, products with geographical indications – GIs, etc.), the adherence to the Mediterranean Diet (MD), preference for vegetable products and formats

Results:

- Overall n = 137 participants involved (GRE = 25, ITA = 29, MOR = 30, SLO = 23, TUN = 30)
- Preference for food in fresh format (health), strong link with local and traditional food (healthier, tastier and more sustainable), quite familiar with GIs (esp. Greece and Italy), aware of the MD but not convinced to follow a MD (barriers price, time), preferred vegs tomato, carrots, zucchini, eggplant and pumpkin









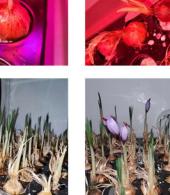
Smart Farming technologies for saffron production

Crocus sativus Moroccan ecotype corms (180) sourced from Morocco were utilized for hydroponic cultivation.

Corms underwent a 12-week pre-conditioning phase at 25°C in darkness before being transferred to ROOT IT propagator trays.



4° week: leaf active production





3° week: leaf emergency

5° week: flowering





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Flowering typically began after approximately 5 weeks of growth.

Stigma collection involved weighing, freezing in liquid nitrogen, and storing at -80°C. A similar procedure was applied to C. sativus Italian ecotype corms (180), with a 1.5-month delay.





Innovative varieties for enhanced argan oil quality and production

3 experiments were installed in different sites :

Northern Morocco (Larache) → <u>Sub humid region</u>

- Centre of Morocco (Meknes) \rightarrow **Dry climate and extreme T**
- Southern west of Morocco (Agadir) → <u>Arid region</u>

Argan oil from different sites is under analyses for physicochemical quality, characterization and traceability assessment















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ProMedlife Snacks

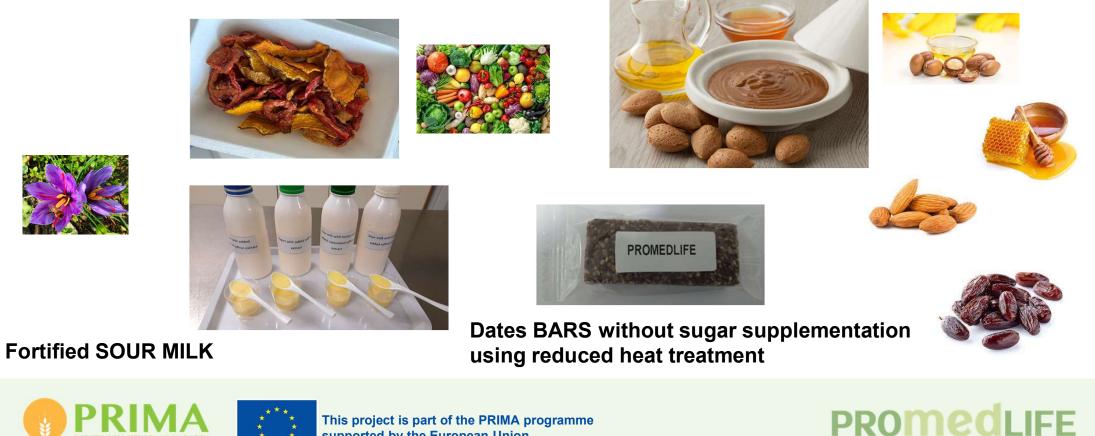
THE MEDITERRANEAN AREA



supported by the European Union

VEGGIE CHIPS: Low temperature - short time drying microtexturisation

Standardization of the production of the spreadable cream AMLOU according to **European guidelines**



Characterization of raw materials

Metabolomic characterization

In-vivo and in-vitro evaluation of the bioactivity



IsoFoodTrack: Database for Food Authenticity and Traceability

Milk & Dairy

Traceability system for raw materials





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Education

NUTRIENTS

- ✓ Definition of nutrients, macro- and micronutrients
- ✓ Macronutrients: carbohydrates, lipids and

FOODS

- ✓ The 5 food groups (+ water)
- The meaning of diet and proper eating habits
- The Mediterranean Diet and the Food Pyramid

BALANCED MEALS

- \checkmark The five meals in a day
- ✓ The healthy plate
- Eating outside
- ✓ Grocery shopping, labelling

HEALTHY AND SUSTAINABLE DIETS

- ✓ The healthy and sustainable diet
- ✓ The seasonality of foods
- ✓ The double pyramid model





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Lessons

PRIMA

statement is associated with only one category and vice versa They are digested and absorbed in the first part of the intestine.

They should not exceed 10% of total dail energy intake.

inflower oil, and dried fru

the proper functioning of the body

ecially fish-derived oils

in a meal with an adequate comp

45-60% of total daily energy intake should

11. In addition to calcium, it is essential for b

12. They are required in large amounts and prov

growth in childhood and ado

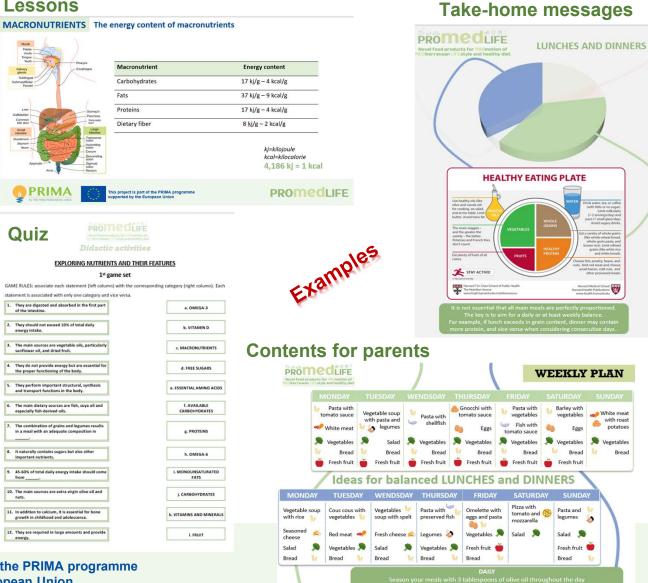
The main dietary sources are fish, soya oil an

tion of grains and legume

Quiz

Fats

1ª game set



White meat

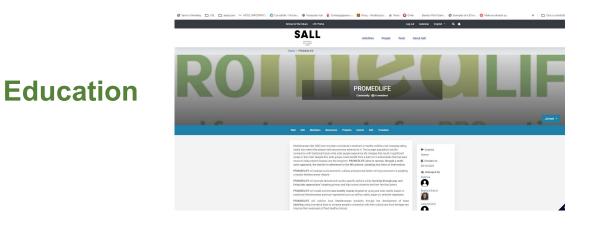
potatoe

Pasta and

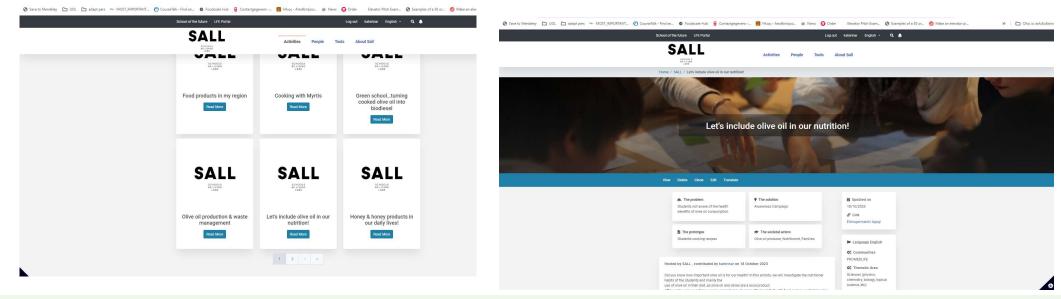
Salad Fresh fruit

Bread

egumes 🍐



International teachers' professional development courses <u>https://esia.ea.gr/futurefoods-summer-school/</u> Scenarios freely downloadable on SALL platform <u>https://www.schoolofthefuture.eu/en/community/</u>

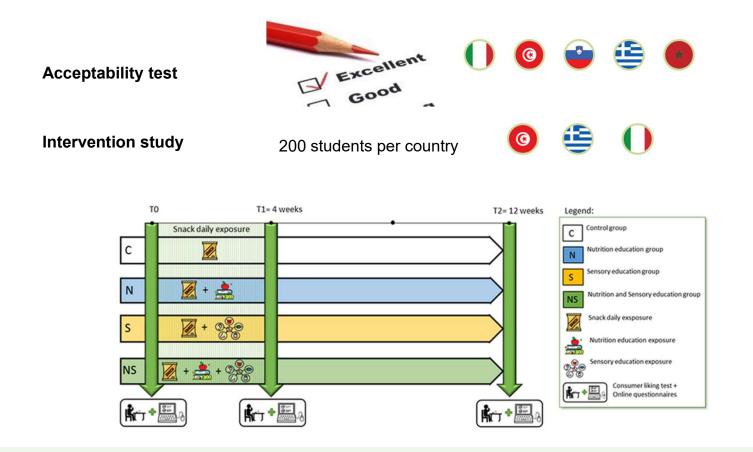






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Test the effect of education on young people







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Intervention Studies

Liking tests and questionnaires

[KIDMED QUESTIONNAIRE]

Let's think about your diet over the last 30 days.

٠	I take a fruit every day	□ Yes	🗆 No
•	I have a second fruit every day	□ Yes	□ No
•	I have fresh or cooked vegetables regularly once per day	🗆 Yes	□ No
•	I have fresh or cooked vegetables more than once per day	□ Yes	□ No
•	I consume fish regularly (at least 2-3 times per week)	□ Yes	□ No
•	I go to a fast-food (hamburger) restaurant more than once per week	🗆 Yes	□ No
•	I like pulses and eat them more than once per week	🗆 Yes	□ No
•	I consume pasta or rice almost every day (5 or more times per week)	🗆 Yes	🗆 No
•	I usually consume whole grain pasta or rice	□ Yes	□ No
•	For breakfast, I eat cereal, bread or rusk	□ Yes	□ No
•	The cereals, breads, and rusks I eat for breakfast are usually whole grain	🗆 Yes	🗆 No
•	I consume nuts regularly (at least 2-3 times per week)	□ Yes	□ No
•	We use olive oil at home	□ Yes	□ No
•	l usually skip breakfast	🗆 Yes	🗆 No
•	I have a dairy product for breakfast (yoghurt, milk, etc.)	🗆 Yes	□ No
•	I have commercially baked goods or pastries for breakfast	🗆 Yes	□ No
•	I take two yoghurts and/or some cheese (40 g) daily	🗆 Yes	🗆 No
•	I take sweets and candy several times every day	□ Yes	□ No

I take sweets and candy several times every day

The following questions are about physical activity.

Physical activity is any activity that gets your heart rate up and can leave you breathless. You can do physical activity by playing sports, as part of school activities, playing with friends, or walking to school. Other examples of physical activity include running, brisk walking, skating or biking, dancing, skateboarding, swimming, playing soccer, basketball, football, surfing, etc.

 In th day? 		s, how ma	any days (did you de	o physical	activity t	otalling	at least 60 minutes per
	0 days	1	2	3	4	5	6	7 days
. 0.1	- (h h		- (h d					a to the point of

Out of school hours: how often do you usually exercise in your free time to the point of breathlessness or sweating?

Daily

4 to 6 times a week

3 times a week

2 times a week

Once a week

Once a month

Less than once a month

Never

Based on the foods included and excluded in your diet, do you consider yourself... •

- Omnivore (general diet, both plants and animals are included)
- Vegetarian-Fisherian (meat and poultry are excluded; dairy, eggs and fish are included)
- Ovo-lactic Vegetarian (meat, poultry and fish are excluded; dairy products and eggs are included).
- □ Lactic vegetarian (meat, poultry, fish, and eggs are excluded; dairy products such as milk, cheese, yogurt, and butter are included).
- Ovo vegetarian (meat, poultry, fish, and dairy products are excluded; eggs are included).
- Pescetarian (meat, poultry, dairy and eggs are excluded; fish is included).
- Vegan (meat, poultry, fish, eggs and dairy products are excluded)
- Flexitarian (a plant-based diet with occasional inclusion of animal products)
- Other (specify):





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PROMEDLIFE

Examples

Intervention Studies

Sensory educational resources



→ Taste 1 sample at a time in alphabetical order.



 \rightarrow Write on the card the sensations you perceive in your mouth or the products with which you associate them











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PROME

NAMING ODORS IS A COMPLEX TASK



LOOK, LISTEN, and... EAT!



The first intervention study in Italy









PROMEDIJE

Novel food products for PROmotion of MEDiterranean LIFEstyle and healthy diet







Thank you for you kind attention!





