



JATC 2 – WP7 – HEALTH IMPACT ASSESSMENT

TASK 7.2A ABOUT THE COMMON APPROACH TO EVALUATE THE USE, ABUSE POTENTIAL AND HEALTH RISKS OF E-CIGARETTES, NOVEL TOBACCO PRODUCTS AND OTHER RELATED TOBACCO AND NICOTINE PRODUCTS

JEREMIE ACHILLE – ANSES (FRENCH AGENCY FOR FOOD, ENVIRONMENTAL AND OCCUPATIONAL HEALTH & SAFETY)

*Investigate, evaluate,
protect*

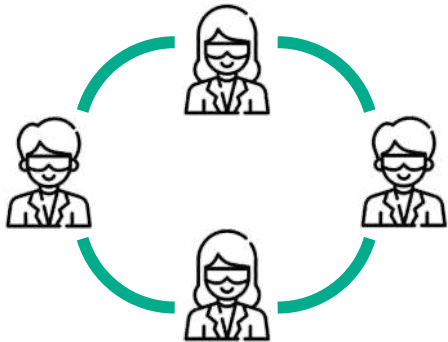


Overview of Work Package 7

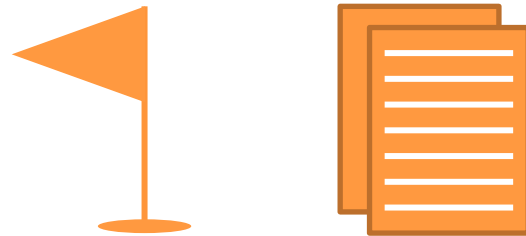


Overview of WP7 – General description

- JATC2 started on October 2021 for a duration of 3 years
- Global coordinator of WP7: National institute for public health and environment, RIVM (NL)
- HIGHLIGHTS



More than 20 partners



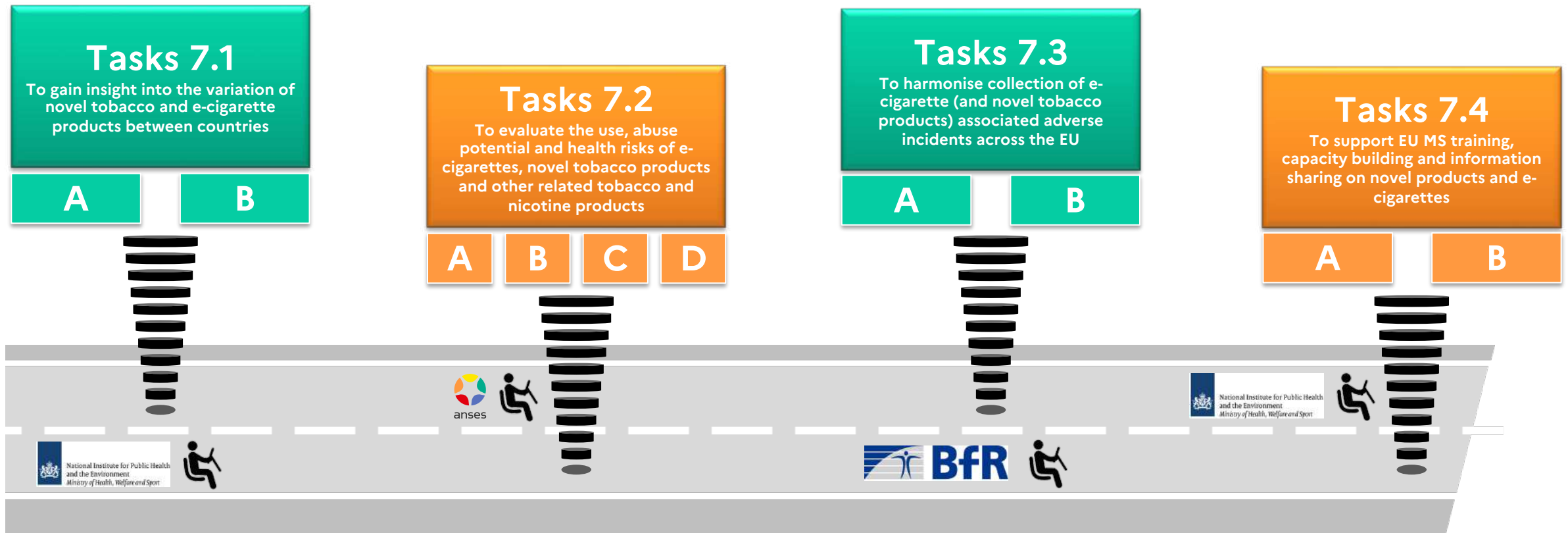
7 milestones & 7 deliverables



Use of EU-CEG data

Overview of WP7 – General description

- JATC2 started on October 2021 for a duration of 3 years
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- TASKS

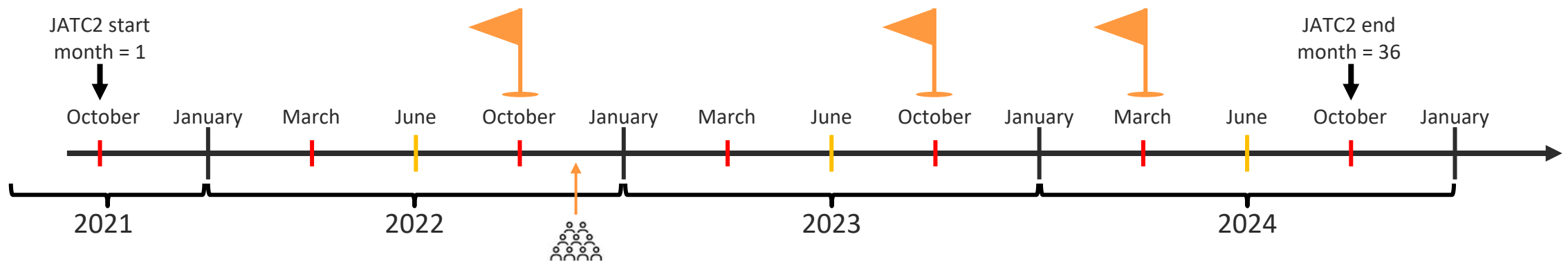


Overview of WP7 – Tasks 7.2

➤ Tasks 7.2 leadership: French Agency for Food, Environmental and Occupational Health & Safety = ANSES (FR)

Tasks 7.2
To evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products

- A** T 7.2a – To develop a framework / approach to evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products
- B** T 7.2b – To assess products ingredients, additives, devices and emissions in relation to their function and toxicological information
- C** T 7.2c – To investigate product awareness, use, and perceptions
- D** T 7.2d – Evaluation of product perception and product properties

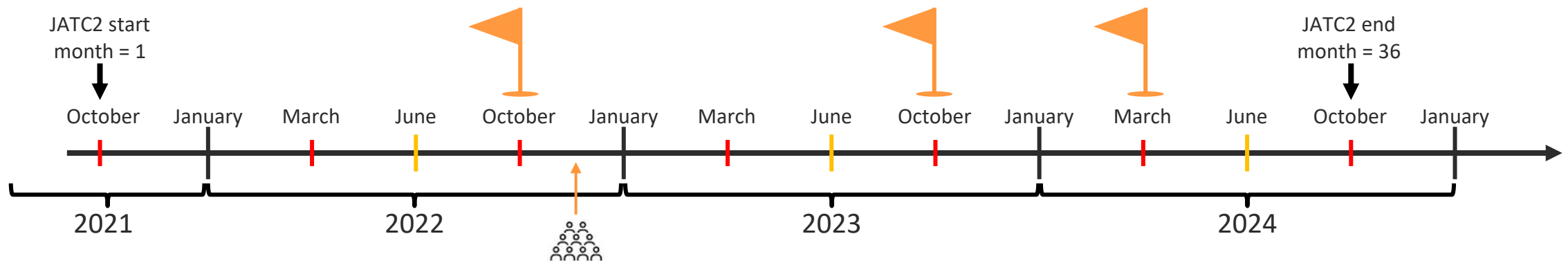


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WP7 – Description of task 7.2a specifically

Tasks 7.2

To evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products

A

T 7.2a – To develop a framework / approach to evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products

- Description: the objective is to identify and determine which substances and product properties are the most relevant for the health risks assessment (including attractiveness and addictiveness) of e-cigarettes, novel tobacco products and other related tobacco and nicotine products
 - Substances: found directly in the products (e.g. e-liquids) or in their emissions; substance properties based for example on toxicity and their role/function (e.g. flavors)
 - Product properties: related for example to product design

- Approach
 - Use of the evaluation framework (developed by RIVM for novel tobacco products) to elaborate a common approach for evaluation of health impact and abuse liability of e-cigarettes and related tobacco and nicotine products
 - Other data collected specifically or elaborated by participants

Overview of WP7 – Task 7.2a

Tasks 7.2

To evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products

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T 7.2a – To develop a framework / approach to evaluate the use, abuse potential and health risks of e-cigarettes, novel tobacco products and other related tobacco and nicotine products

- Elaboration of an evaluation framework based on 3 main factors and associated parameters for each

Attractiveness

<i>Product related parameters</i>	<i>Situational parameters</i>
Sensory properties/palatability	Accessibility
Availability and variety of flavors	Marketing and advertising
Nicotine content	Public information
Design of product	Social network
Design of package	Other parameters contributing to attractiveness
Price	
Health effects	

Overview of WP7 – Task 7.2a

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Addictiveness

Product related parameters

Presence of nicotine in the contents and/or emissions
Nicotine concentration and its form
Route and rate of delivery
Presence of other addictiveness enhancing compounds
Other parameters potentially contributing to addictiveness

Toxicity

Product related parameters

Presence of compounds with CMR properties
Presence of other hazardous compounds
Quantity of other hazardous compounds
Other parameters potentially contributing to toxicity

Overview of WP7 – Task 7.2a

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Presence of other hazardous compounds
Quantity of other hazardous compounds
Other parameters potentially contributing to toxicity

Overview of WP7 – Task 7.2a – Example for attractiveness

- Parameter about design of product – How it can affect consumers' perception and associated attractiveness?

Nicotine & Tobacco Research, 2022, 342–348
<https://doi.org/10.1093/ntab/153>
Original Investigation
Received March 29, 2021; Editorial Decision July 19, 2021; Accepted July 21, 2021

SRNT OXFORD

Original Investigation

Stealth Vaping Among College Students on Four Geographically Distinct Tobacco-Free College Campuses: Prevalence and Practices

Alex M. Russell PhD^{1,2}, Meng Yang MPH², Adam E. Barry PhD³, Ashley L. Merianos PhD^{4,5}, Hsien-Chang Lin PhD²

Industry watch

New products that facilitate stealth vaping: the case of SLEAV

Allison Dormanesh , Jon-Patrick Allem 

Nicotine & Tobacco Research, 2022, 372–379
<https://doi.org/10.1093/ntab/165>
Original Investigation
Received June 10, 2021; Editorial Decision August 9, 2021; Accepted August 10, 2021

SRNT OXFORD

Original Investigation

Disposable E-Cigarette Use Prevalence, Correlates, and Associations With Previous Tobacco Product Use in Young Adults

Adam M. Leventhal PhD^{1,2}, Hongying Dai PhD^{3,4}, Jessica L. Barrington-Trimis PhD^{1,2}, Alayna P. Tackett PhD^{1,2,5}, Eric R. Pedersen PhD^{1,4}, Denise D. Tran PhD⁴

Original research

Use of heated tobacco products where their use is prohibited

Jung Ah Lee , ¹ Cheolmin Lee, ² Hong-Jun Cho  ³

JMIR PUBLIC HEALTH AND SURVEILLANCE

Staal et al

Original Paper

New Tobacco and Tobacco-Related Products: Early Detection of Product Development, Marketing Strategies, and Consumer Interest

Yvonne CM Staal¹, PhD; Suzanne van de Nobelen^{1,2}, PhD; Anne Havermans¹, PhD; Reinskje Talhout¹, PhD

Nicotine and Tobacco Research, 2022, 24, 1120–1124
<https://doi.org/10.1093/ntac/047>
Advance access publication 16 February 2022

Brief Report

SRNT OXFORD


An Examination of Perceptions of Similarity to Cigarettes, Health Risk Perceptions, and Willingness to Try Across Nicotine Vaping Products

Christopher Berry PhD¹, Scot Burton PhD²

- Parameter about nicotine concentration and its form

Original research

Comprehensive Dutch market data analysis shows that e-liquids with nicotine salts have both higher nicotine and flavour concentrations than those with free-base nicotine

Jeroen L A Pennings , Anne Havermans , Charlotte G G M Pauwels , Erna J Z Krüseemann, Wouter F Visser , Reinskje Talhout

Original research

 OPEN ACCESS

Nicotine in tobacco product aerosols: 'It's déjà vu all over again'

Anna K Duell,¹ James F Pankow,^{1,2} David H Peyton ¹

 Expert Opinion on Drug Delivery

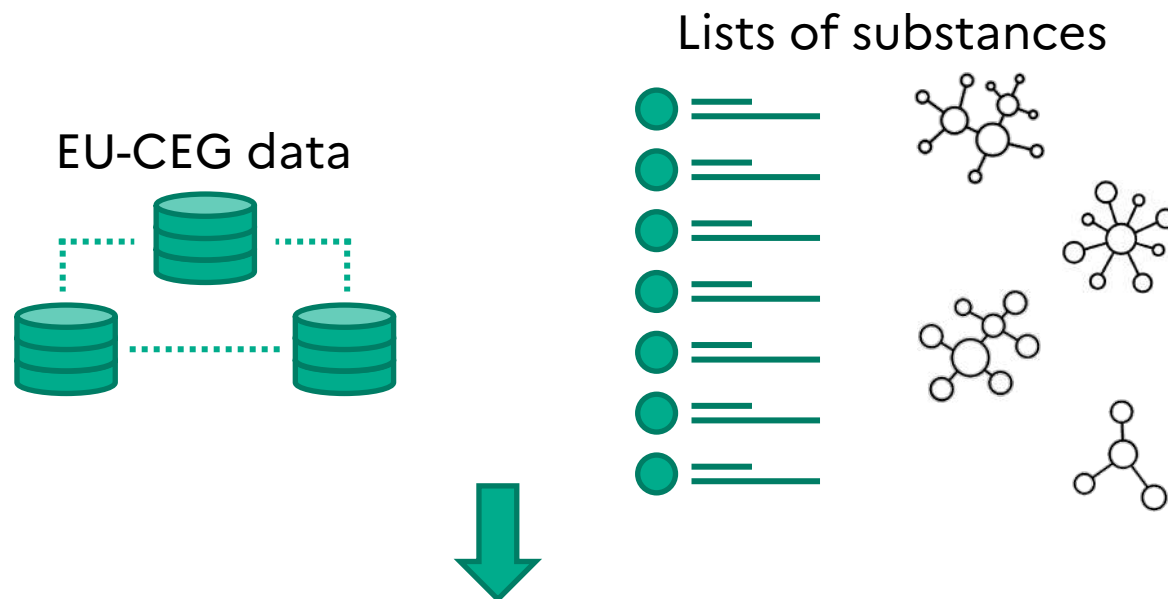
ISSN: (Print) (Online) Journal homepage: <https://www.tandfonline.com/loi/iedd20>

Nicotine forms: Why and how do they matter in nicotine delivery from electronic cigarettes?

Vinit V Gholap , Leon Kosmider , Laleh Golshahi & Matthew S Halquist

Overview of WP7 – Task 7.2a – Example for toxicity

- Parameter about presence of compounds with CMR (carcinogenic, mutagenic or toxic to reproduction) properties



Classification lists:

- = Classification Labelling Packaging (CLP)
- = International Agency for Research on Cancer (IARC)
- = US Environmental Protection Agency (US EPA)
- = American Conference of Governmental Industrial Hygienists (ACGIH)



Take-home messages

- Work Package 7 is in progress
 - 1/3 of the project has passed and more than 20 partners are actively working to enhance a better understanding of the properties, health impact and regulatory implications of e-cigarettes and related tobacco and nicotine products
 - Many tasks are interdependent and results will be combined to perform the health impact assessments

- Task 7.2a has ended
 - The developed framework provides useful references to evaluate parameters related to attractiveness, addictiveness and toxicity for e-cigarettes and related tobacco and nicotine products
 - This work is now pursued with task 7.2b & 7.2c (next intervention on this subject) with an application of the approach

Thank you for your attention

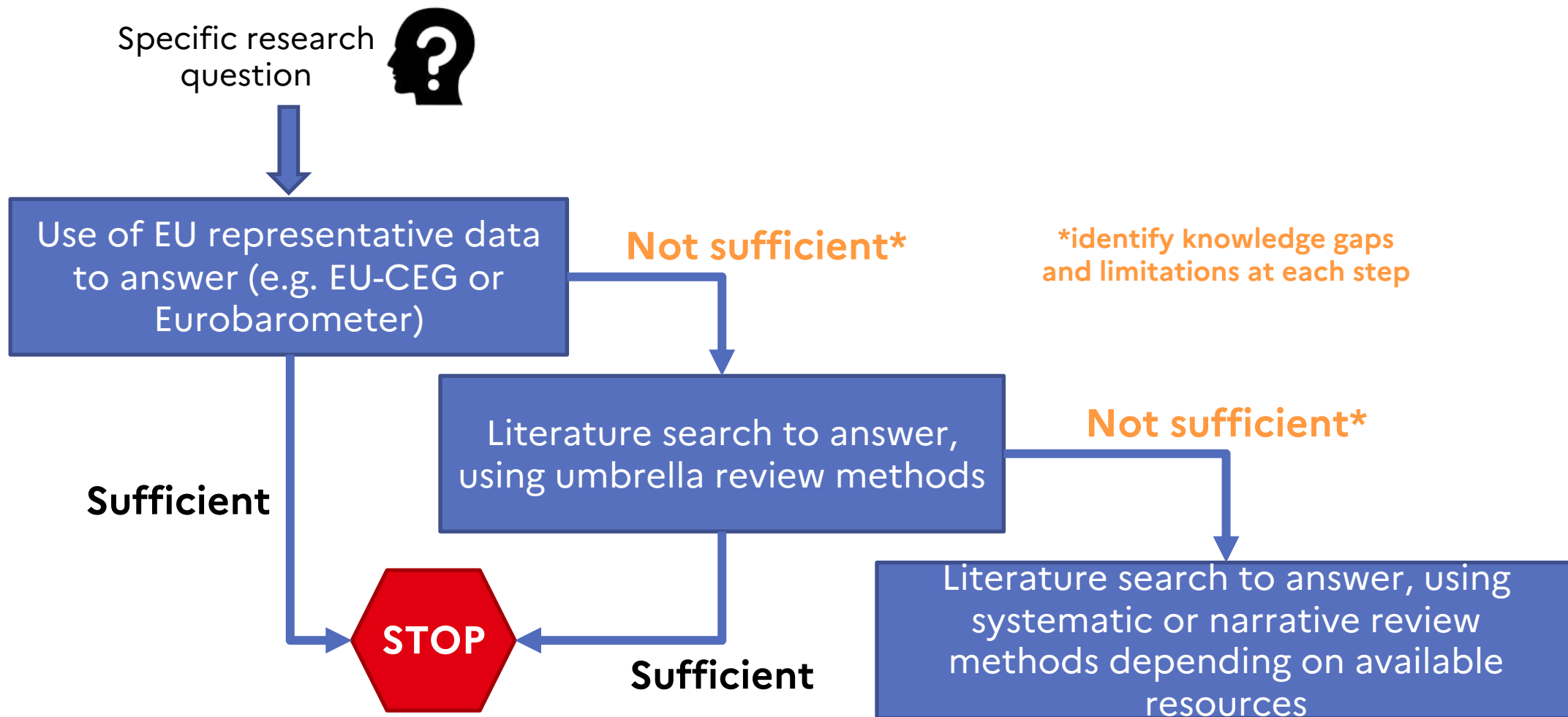


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More information on JATC2: <https://jaotc.eu/>

BACK UP



Methodological considerations



Methodological considerations

- The common approach details specific strategies that will be deployed in future tasks
 - Strategy about data collection: guidelines about the use of rapid review approaches or umbrella reviews to better summarize the available data from literature; options when data are not available (e.g. use of QSAR toolbox or developing specific questionnaire and disseminating it thanks to JATC2 network)

 - Strategy about data analysis: guidelines about quality assessment for scientific evidence (e.g. levels of uncertainty); assessment of possible funding impact for scientific work using declared competing interest information; possible quantitative assessment for specific parameters (e.g. quantitative risk assessment for substances with sufficient toxicological information)

 - Strategy about product type: differences depending on product type (e.g. e-cigarettes highly documented vs nicotine pouches poorly documented)

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Role in WP7:

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Role in WP7:

Other participant from Anses to WP7 tasks

