

### Decision-making aid tool to support renovation of buildings with industrialised all-in-one technology solutions

Diego Sanz Almela, Valencia Institute of Building (IVE) On-line, 28/09/21



**INFINITE** project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No **958397** 

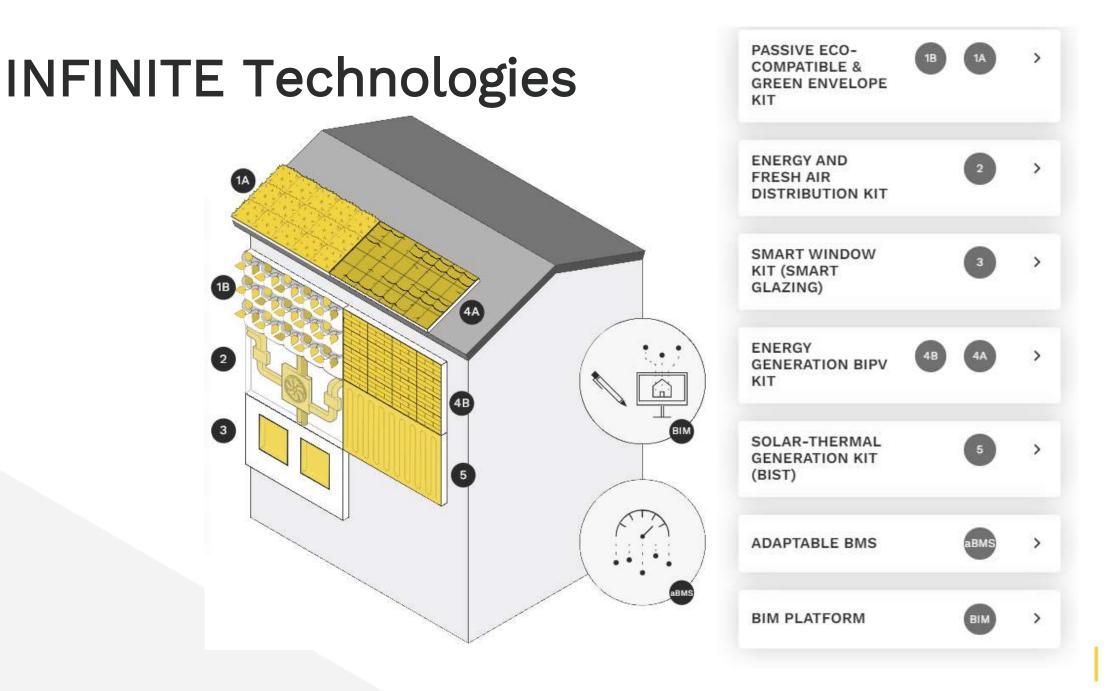
### **INFINITE** project

Industrialised durable building envelope retrofitting by all-in-one interconnected technology solutions



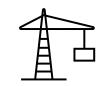
INFINITE aims to:

- increase the market penetration of industrialized integral building **envelope kits** for deep renovation
- development of a set of multi-user and multidisciplinary **tools**
- maintain the focus on **end users** and all stakeholders in the value chain.



## Starting point

- 1. Can I install that system in the building?
- Decision-making aid tool



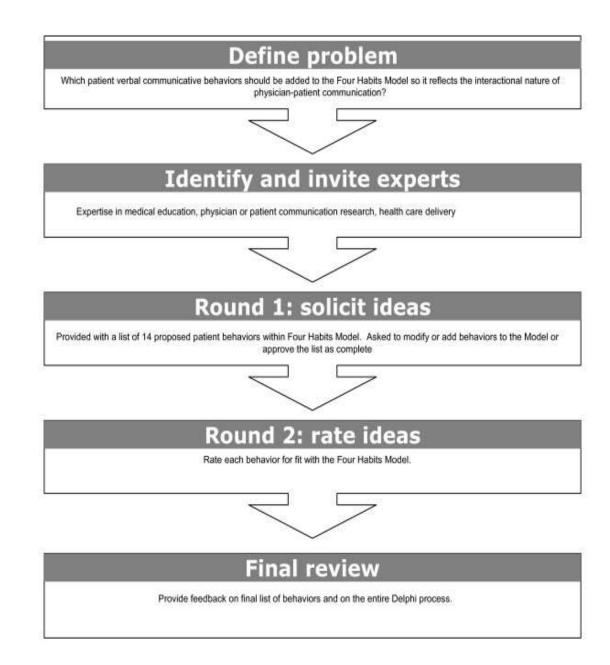
- 2. How much would it cost?
- Business models

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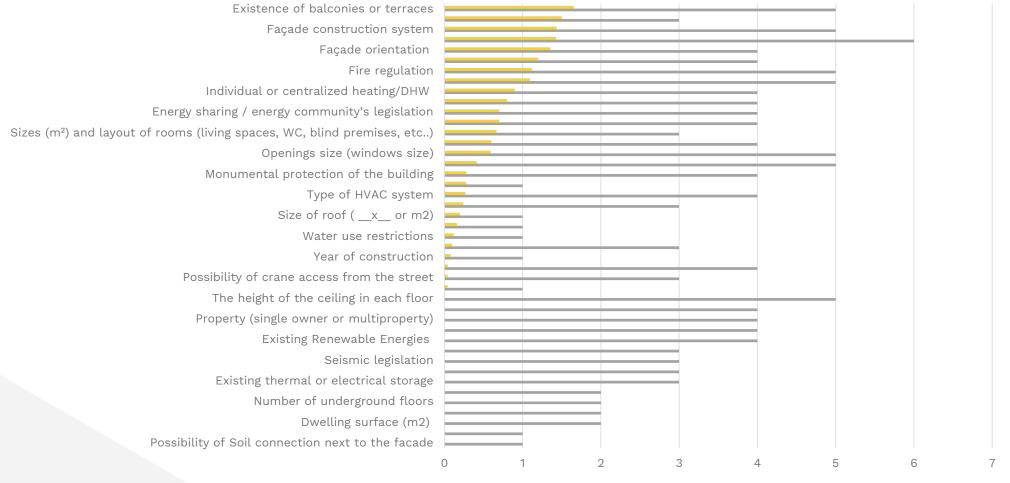
## Delphi method



# Delphi method

#### Design and installation

Results summary



■Total weighted ■Total

### **Technical questionnaires**

Technical partners

#### **PASSIVE ECO-COMPATIBLE & GREEN ENVELOPE KIT:**

#### A. GREEN FAÇADE

1. Regardless of legislation, can the system be installed on any **building use**?

a. Yes

b. No

If not, in which ones is not possible?

2. Which is the rough **weight** of your standard system? (Kg/m<sup>2</sup>, psi, lb/sqm...)

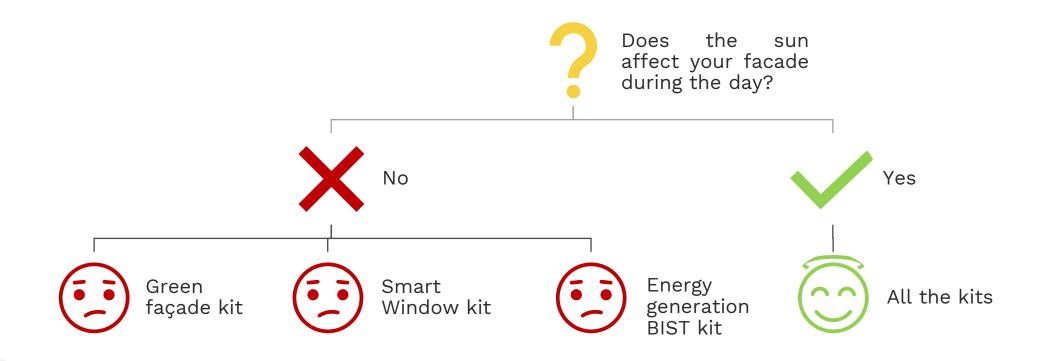
3. Is there a minimum **façade area** to install the system?

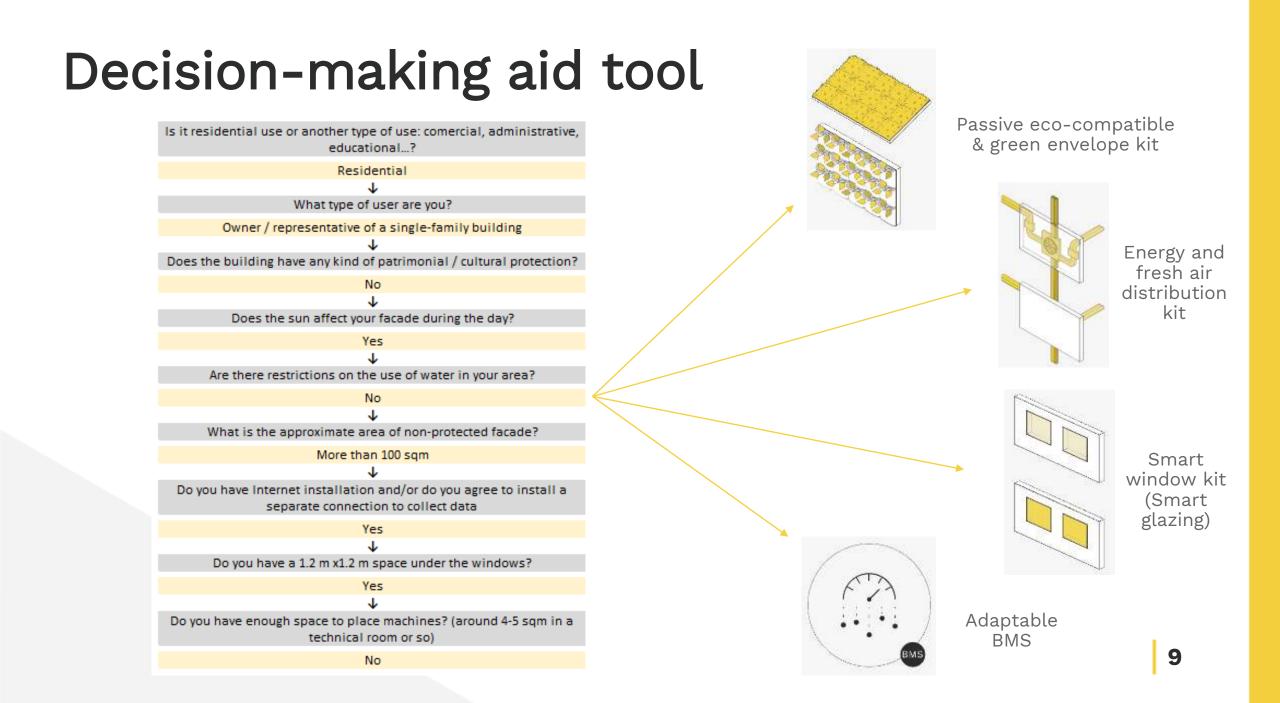
a. No

b. Yes

If yes, how many sqm/m<sup>2</sup>?

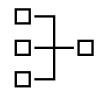
### Limiting parameters





# Tool application

Valencia case



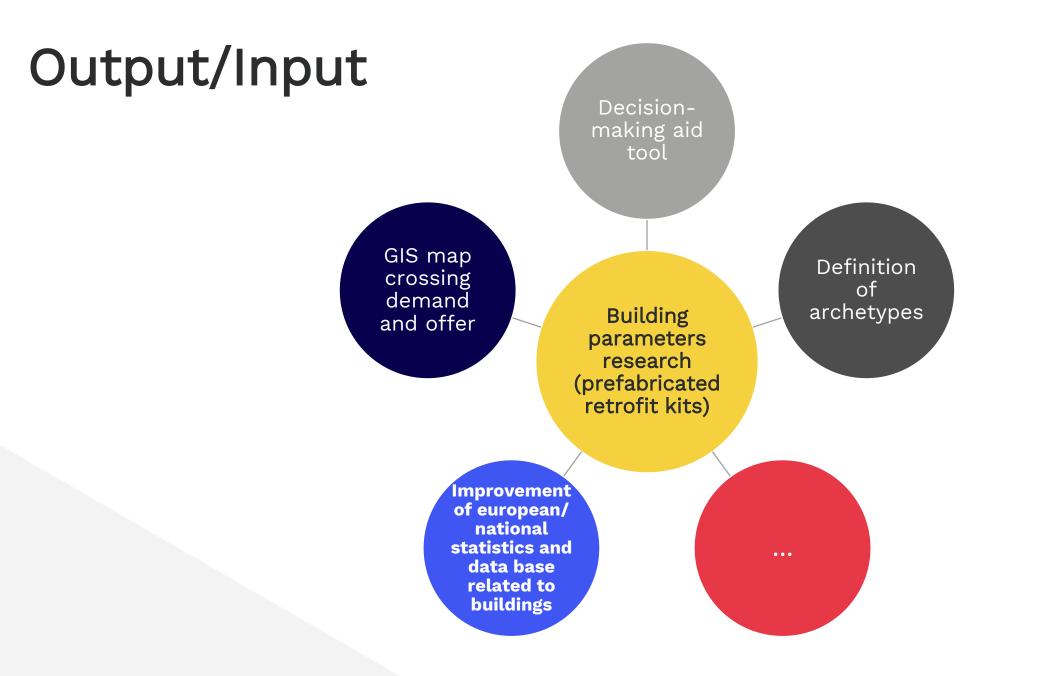
### One-Stop Shops (OSS)

Grouping together in a single entity the different procedures or services that a user may request.



- Make housing renovation processes easier, faster and more affordable for homeowners.
- Use of different tools/applications:
  - Calculation of grants or other subsidies
  - Guides to procedures
  - Financial advice
  - Decision-making aid tool





### Consortium

eurac

research

**Project Partners** Coordinator GRÜN Statt Grau HUYGEN EDERA one team GreenDelta INCERTURS & ADVISIURS RUBNER EITET oba**tek** INEF4烯 BOUYGUES holzbau managing technologies GENERALITAT VALENCIANA SVN/GE" 💵 PHYSEE Vicepresidencia Segunda y Consellería de Vivienda Angeliteetana Bioelimática = Aramis PolyOuvrages Stanovaniskopodjetj VORTICE

https://infinitebuildingrenovation.eu/



## Thank you

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