

# One Stop Shop

a digital platform to guide energy retrofit



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 839134



**TURNKEY  
RETROFIT**

# One Stop Shop energy retrofit interactive presentation

27<sup>th</sup> of April 2020

Partners



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 839134.



# What's the purpose of the TURNKEY RETROFIT project

To give the homeowner a pleasant experience in their renovation journey from start to finish.

We'll do this by developing a digital platform to guide energy retrofit and provide easy to understand **information** and **tools** so that customers can find out what to do online and **be energy retrofit ready**.





Comfort, health and smaller energy bills  
at your fingertips.



Our mission

**Guide your retrofit journey  
from start to finish**

# Objective of this presentation

# Objective of this presentation

## TO EXPLAIN TO YOU

1. The French prototype
2. Existing and ideal customer journey in Ireland
3. What the Irish One stop shop could be
4. The flow diagram of the process and potential to aggregate
5. What we have in mind for Ireland
6. What kind of contextual data needed to run the digital platform and how to collect and manage missing data.



**Listen to what we've created for the French digital platform and tell us what you think about it !**

---



# Presentation of the French prototype

# Presentation of the French prototype

## *Some definitions*

### **One stop shop**

- A service that provides a range of information, best practice, actions and services in one place for a customer friendly approach.
- As well as an end to end management and coordination of renovation works through one point of contact with a guarantee of quality;
- And a tailor-made solution for the customer.
- Financing may or may not be part of it. On the Irish platform it's something we'd like to have.

### **Bricks**

In the Turnkey Retrofit project, bricks refer to digital building blocks that will interface with existing businesses' websites and create more functionalities to assist the customer on their journey.

Bricks could be likened to plug ins - used in software programs to support specific features or functionality. For e.g. Punch diagram and Smartdiagram

# Presentation of the French prototype

## *Some definitions*

### **Punch Diag**

Is a type of brick that can be used to let the homeowner interact with a picture of a house and “punch in” information about their home

### **Actors**

Refers to the energy retrofit businesses, contractors, suppliers and trusted advisors

### **Smartdiag**

Is a type of brick that can be used to identify the best retrofit roadmap for the homeowner based on energy assessment.

It provides an overall scoring [similar to an EPC] and three road maps with energy costs and list of works. The 3 road maps define the scope of works “initial”, “intermediate” and “complete”.

The smartdiag links the homeowner’s address and external data such as climatic info, cadastral map plus technical aspects of the materials and construction of the house to complete an overall thermal model of the house.

# Presentation of the French prototype

Homepage



We will now show you some screenshots of each of these steps in the French Prototype

HOME PAGE  
(top part)

## Everyone can reduce their environmental impact.

And you can live in a energy efficient home which is warmer, more comfortable and has cheaper energy bills.

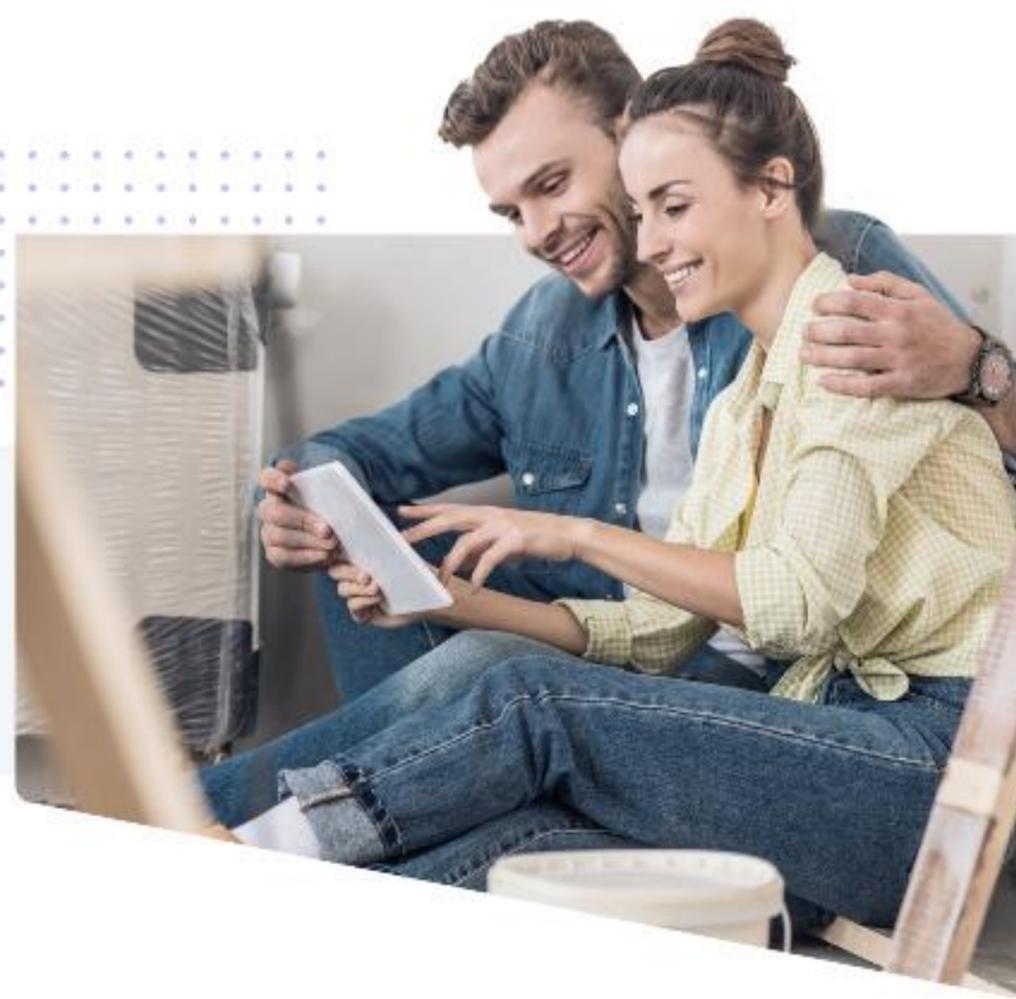
### What if we started by your home?

Tell us what you need and Heero will get you renovation ready for the best home that suits your comfort levels and your pocket.

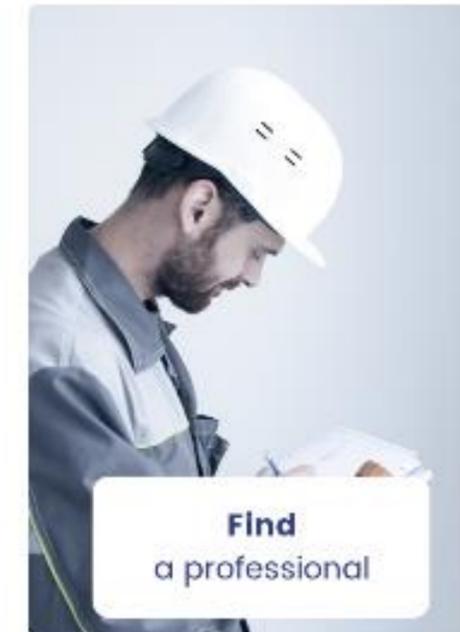
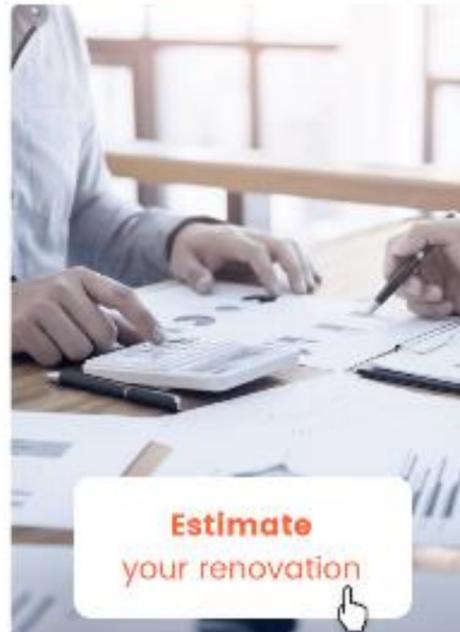
I would like to :

GO

This project is made possible by :



## Let Heero make your renovation easy



SMARTDIAG

*Step 1 - Before starting a questionnaire, you have to create a home.*

*The diagnosis is only available for the single houses.*

## Créez votre logement

Donnez un nom à votre logement

Exemple: ma petite maison

Quelle est son adresse postale ?

Exemple : 8 rue des Lilas, 44000 Nantes

De quel type de logement s'agit-il ?



Appartement



Maison

Vous en êtes l'heureux :

Propriétaire

Locataire

Continuer

## HOMEPAGE (bottom part)



### Energy Assessment

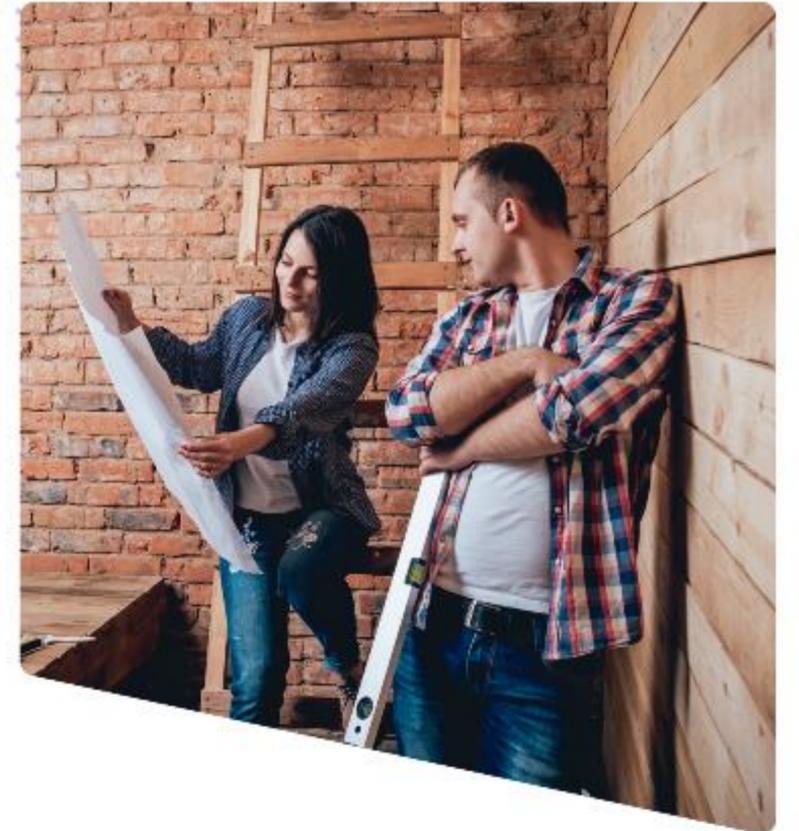
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin mattis ipsum sed tellus fringilla, vel mollis libero consectetur. Cras rutrum ac diam at consectetur. Sed malesuada vehicula diam eu finibus. Vivamus maximus ipsum turpis, at euismod lorem iaculis in. Nam ultrices massa orci, vel mattis lectus posuere eget.

Get an energy assessment

### Estimate the cost of your renovation

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin mattis ipsum sed tellus fringilla, vel mollis libero consectetur. Cras rutrum ac diam at consectetur. Sed malesuada vehicula diam eu finibus. Vivamus maximus ipsum turpis, at euismod lorem iaculis in. Nam ultrices massa orci, vel mattis lectus posuere eget.

GO



## SMARTDIAG

*Step 1 - Before starting a questionnaire, you have to create a home.*

*The diagnosis is only available for the single houses.*

# Créez votre logement

Donnez un nom à votre logement

Exemple: ma petite maison

*You enter a name for your home*

Quelle est son adresse postale ?

Exemple : 8 rue des Lilas, 44000 Nantes

*an adress*

De quel type de logement s'agit-il ?



Appartement



Maison

*Tell if you are in a flat or a house*

Vous en êtes l'heureux :

Propriétaire

Locataire

*and if you are owner or a tenant*

Continuer

## SMARTDIAG

Step 2 – You describe your house through a questionnaire

Here are some examples of the questions

Quelle est l'année de construction de votre logement ?

1992

Continuer

ou pressez la touche Entrée ↵

Même approximativement ça sera très bien

Quelle est votre énergie principale de chauffage ?

Électricité

Gaz

Fioul

Si vous utilisez plusieurs types d'énergie pour vous chauffer, indiquez ici votre énergie principale.

Que trouve-t-on sous votre logement ?



Un terre-plein



Un vide sanitaire



Un local non chauffé



Un local chauffé

A quoi ressemblent vos combles ?



Aménagés

Vous vous servez de vos combles, vous les avez isolés.



Perdus

Vos combles sont inhabitables en l'état.



Toit-terrasse

Votre toit est plat et vous y avez accès.



Quel est le montant annuel de votre facture d'électricité ?

1000 €

Continuer

ou pressez la touche Entrée ↵

Le montant annuel de votre dernière facture d'électricité

Je ne sais pas

## SMARTDIAG

Step 2 – You describe your house through a questionnaire

Here are some examples of the questions

### When was your house built ?

1992

Continuer

ou pressez la touche Entrée ↵

Même approximativement ça sera très bien

### What's under your house ?



Un terre-plein



Un vide sanitaire



Un local non chauffé



Un local chauffé

### What's your energy bill ?

1000 €

Continuer

ou pressez la touche Entrée ↵

Le montant annuel de votre dernière facture d'électricité

Je ne sais pas

### Heating energy ?

Électricité

Gaz

Fioul

Si vous utilisez plusieurs types d'énergie pour vous chauffer, indiquez ici votre énergie principale.

### How is your attic ?



Aménagés

Vous vous servez de vos combles, vous les avez isolés.

Converted



Perdus

Vos combles sont inhabitables en l'état.

Empty



Toit-terrasse

Votre toit est plat et vous y avez accès.

Terrace



24 Rue Louis Malle, 44115 Basse-Goulaine

Locataire : Floriane

Ma maison

Pièces

Cadre de vie

**Profil énergétique**

Carte

Documents

Car

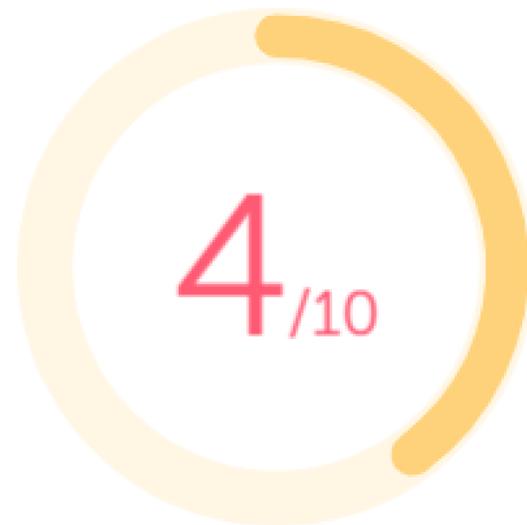
SMARTDIAG

Step 3 – In the end you have a notation : 4/10

You can compare it to the EPC label

**Vous obtenez 4 / 10**

Bon, on ne va pas se mentir, ce n'est pas une très bonne note.



[Voir le récapitulatif de mes réponses](#)

La note 4/10 indique que votre habitat a besoin d'améliorations au niveau confort et isolation.

Les notes entre 4 et 7 sont les notes les plus répandues en France. Cela correspond généralement aux logements construits dans les années 70, avant la mise en place des différentes réglementations thermiques. Une amélioration de votre note est cependant possible et est loin d'être compliquée. Une simple isolation ou un changement de système suffit afin de diminuer de façon significative votre consommation énergétique.

[Vous voulez nous faire part de votre avis sur les résultats obtenus ?](#)



24 Rue Louis Malle, 44115 Basse-Goulaine

Locataire : Floriane

Ma maison

Pièces

Cadre de vie

**Profil énergétique**

Carte

Documents

Car

SMARTDIAG

Step 3 – In the end you have a notation : 4/10

You can compare it to the EPC label

Your house is a 4 / 10

Well, let's be honest, it's not very good.

It means you can improve a lot on comfort and energy efficiency.

France. Cela correspond généralement aux logements construits dans les années 70, avant la mise en place des différentes réglementations thermiques. Une amélioration de votre note est cependant possible et est loin d'être compliquée. Une simple isolation ou un changement de système suffit afin de diminuer de façon significative votre consommation énergétique.



Voir le récapitulatif de mes réponses

Vous voulez nous faire part de votre avis sur les résultats obtenus ?

## SMARTDIAG

Step 4 – You have the choice between 3 roadmaps : “initial”, “intermediate” and “complete”



### Initial

Les travaux essentiels à réaliser

#### Walls insulation

Changement de fenêtres, porte-fenêtres, ou fenêtres de toit.

Installation d'une chaudière gaz à condensation

Installation d'une ventilation simple flux hygroréglable de type B

Isolation sur le plancher bas

Save up to 621€/year

Cost between 35k€ and 48k€



### Intermediate

Les travaux les plus rentables

#### Walls insulation

#### New windows

Installation d'une chaudière gaz à condensation

Installation d'une ventilation simple flux hygroréglable de type B

Isolation sur le plancher bas

Save up to 731€/year

Cost between 49k€ and 68k€



### Complete

Les travaux les plus efficaces pour vos économies d'énergie

#### Walls insulation

#### New windows

#### New boiler

#### Mechanical ventilation

#### Floor insulation

Save up to 1982€/year

Cost between 61k€ and 84k€

## SMARTDIAG

Step 4 – You have the choice between 3 roadmaps : “initial”, “intermediate” and “complete”



### POUR COMMENCER

Les travaux essentiels à réaliser

Isolation des murs par l'extérieur ✓

Changement de fenêtres, porte-fenêtres, ou fenêtres de toit.

Installation d'une chaudière gaz à condensation

Installation d'une ventilation simple flux hygroréglable de type B

Isolation sur le plancher bas

Economisez jusqu'à

**621**€/an

MONTANT TOTAL :  
de 35 000 à 48 100  
euros



### ALLER PLUS LOIN

Les travaux les plus rentables

Isolation des murs par l'extérieur ✓

Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. ✓

Installation d'une chaudière gaz à condensation

Installation d'une ventilation simple flux hygroréglable de type B

Isolation sur le plancher bas

Economisez jusqu'à

**731**€/an

MONTANT TOTAL :  
de 49 500 à 68 100  
euros



### EN FAIRE PLUS

Les travaux les plus efficaces pour vos économies d'énergie

Isolation des murs par l'extérieur ✓

Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. ✓

Installation d'une chaudière gaz à condensation ✓

Installation d'une ventilation simple flux hygroréglable de type B ✓

Isolation sur le plancher bas ✓

Economisez jusqu'à

**1 982**€/an

MONTANT TOTAL :  
de 61 400 à 84 400  
euros

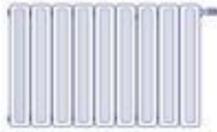
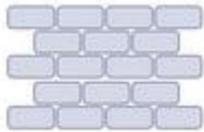
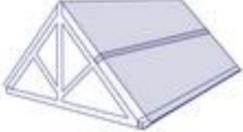
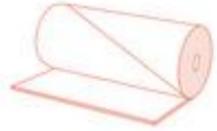
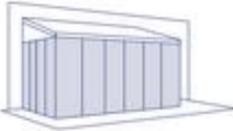
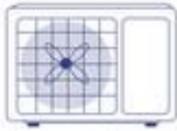
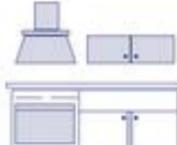
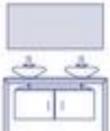
**COST**

*Step 1-Select renovation measure*

*Example if selecting attic insulation*

### Cost estimate of your renovation

Tell us about your renovation, what would you like to do?

 <p>Heating system</p>	 <p>Floor, wall and ceiling</p>	 <p>Roof and facade</p>	 <p>Windows</p>
 <p><b>Insulation</b></p>	 <p>Roof, façade and gable</p>	 <p>Solar power</p>	 <p>Electricity, safety and home automation</p>
 <p>Ventilation and air conditioning</p>	 <p>Kitchen</p>	 <p>Bathroom</p>	 <p>Outside layout</p>
 <p>Global renovation and expansion</p>	 <p>Other</p>		

 Your renovation

>  Your home

>  Your estimate



**COST**

*Step 2-Provide information about the building*

*Example if selecting attic insulation*

### Roof insulation

Is your attic accessible?

Yes

No



Is your attic insulated?

Yes

No



What area would you plan to insulate?

54 m<sup>2</sup>



**COST**

*Step 3-Cost estimate*

*Example if selecting attic insulation*

Your renovation : Insulating your attic will cost

**Between 10 000 and 12 000€ TTC\***

**Grants**

Tax credits from 352€

Energy credits from 423€

[How to benefit from energy credits ?](#)

**Your renovation**

Roof insulation	Quantity	VAT
Supply and installation of insulation	54	5,5%
Attic accessible : YES		
Removal of existing insulation	54	5,5%

GO

**Our best professionnals**

Qualified professionals give you impartial advice. NSAI and SEAI registered contractors

**Our estimate**

Estimates are based on the information you provide, current market price, mid-range quality materials in accordance with national regulations and technical specifications required by SEAI or energy company grant applications.

A professional advisor will visit your home, make an assessment of the real situation and confirm the final quote. Your renovation is tailor made for you.



Your renovation >



Your home >



Your estimate

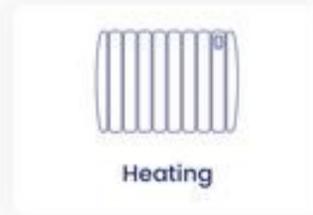
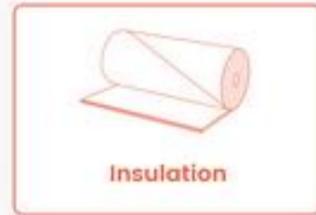
10 %

## FINANCE MY PROJECT

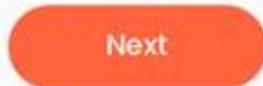
Step 1-Select renovation measure

### Finance my renovation

Select a category



What would you like to change or renovate?



## FINANCE MY PROJECT

Step 2-Provide information about the building

### Pitched roof insulation



Housing type :



Address

ex : 6 rue de la liberté, 44000 Nantes



Energy used for heating your home



What's your address and your eircode number?

To connect to data on the building type.





FINANCE MY PROJECT

Step 3-Check for grant options



**Congratulations, your project is eligible for the "energy bonus" !**

The applicant may be eligible for financial support (energy bonus) to complete the renovation.

	<p>Classic</p> <p><b>448,00 €</b></p> <p>Soit 140 000 kWh Cumac</p>	<p>Bonus</p> <p><b>623,00 €</b></p> <p>Soit 140 000 kWh Cumac</p>	
	<p>Energy credits and discounts available for each contract signed after (date)</p>		

Depending on your income level, you may be eligible for further financial support or tax credits for the amount of 305€ (for a total of 750€)

[Edit](#)
[Add information on your application](#)

**ROOF INSULATION AT 6 RUE DE LA LIBERTÉ - 44000 NANTES**

Surface : **100 m2**

Type : **House**

Living space : **100 m2**

Heating energy : **Electricity**

**i** For the insulation of an attic space, the thermal resistance R must be > 7m².K/W.  
 For the insulation of a pitched roof, the thermal resistance R must be > 6m².K/W.  
 The thermal resistance is evaluated following NF EN ...

FIND  
AN ADVISOR  
AND  
A CONTRACTOR

**Step one:**  
Choose a professional advisor to visit your home to confirm the estimate

**Step two:**  
Choose a contractor to carry out the renovation

 **Gerard Chauffage**   

75 rue des hauts pavets  
44000, Nantes  
Tel : 0667890789

Job : Chaudière condensation ou micro...

Heero score : ★★★★★ (4/5)  
No of construction sites Heero : 5

[Whole profil](#)

 **Liam McKenzie**   

61 bis rue leon say  
44000, nantes  
Tel : 0667890789

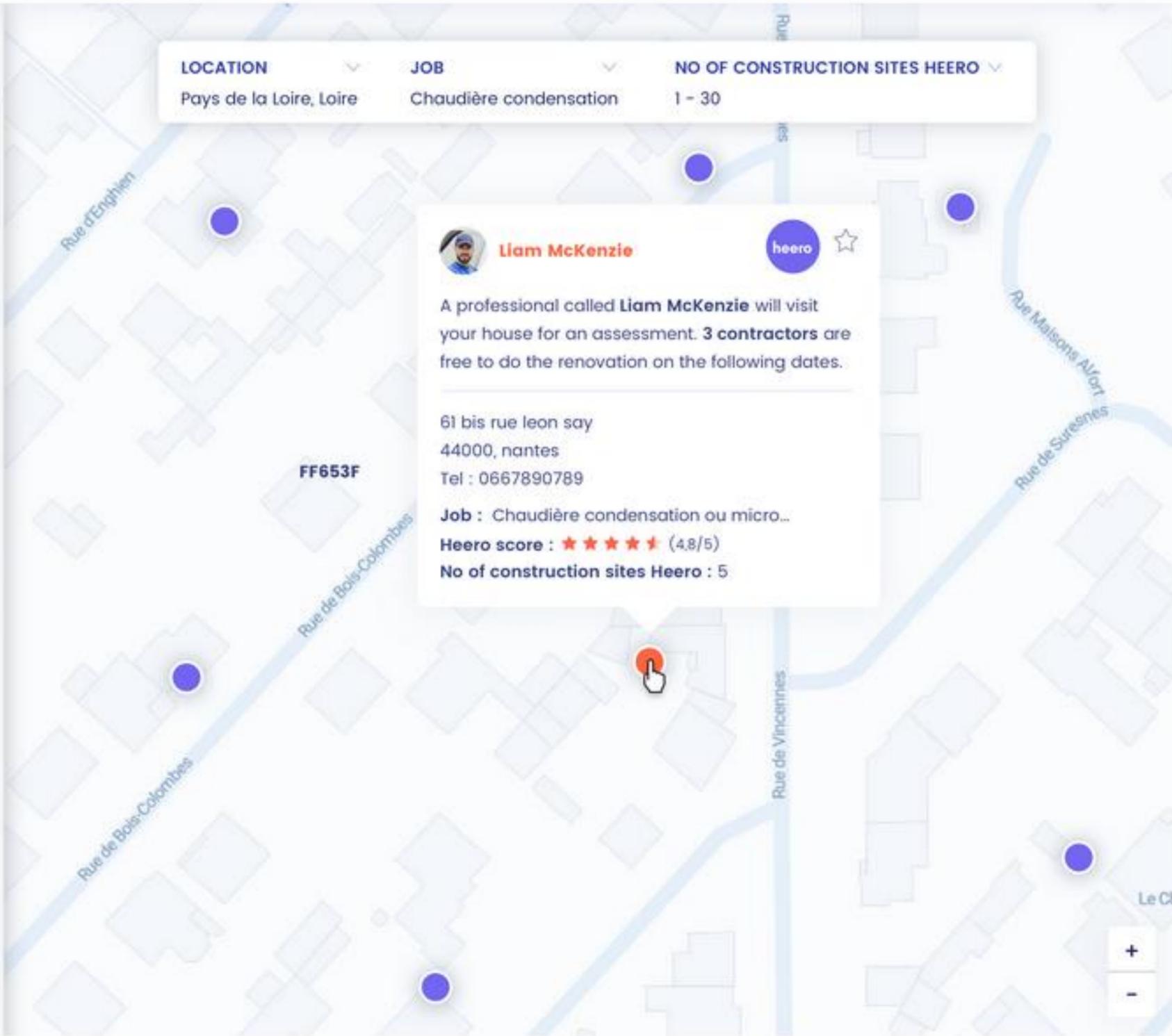
Job : Chaudière condensation ou micro...

Heero score : ★★★★★ (4,8/5)  
No of construction sites Heero : 5

[Whole profil](#)

 **Delaitre Philippe-Popo Les Bons Tuyaux** 

LOCATION Pays de la Loire, Loire JOB Chaudière condensation NO OF CONSTRUCTION SITES HEERO 1 - 30



**Liam McKenzie**  

A professional called **Liam McKenzie** will visit your house for an assessment. **3 contractors** are free to do the renovation on the following dates.

61 bis rue leon say  
44000, nantes  
Tel : 0667890789

Job : Chaudière condensation ou micro...

Heero score : ★★★★★ (4,8/5)  
No of construction sites Heero : 5

# Presentation of the French prototype

We plan to add some more tools

- Punch Diag to attract people's attention on what works they need to do (an example will be shown in the following slides)
- A roadmap to give the right order to follow for the works
- Tools for multi-family buildings and condominiums

# Punch Diag

Is a useful tool

- To help people decide if they NEED to do some retrofit work.
- And guide them to understand which part they should do work on.
- For people who do not know where to start or don't understand technical jargon - We use photos to help them describe their home.

# Punch Diag

### Renovation criteria



#85671676

- 1 - Problems to solve
- 2 - Weather
- 3 - Windows
- 4 - Roof insulation
- 5 - Wall insulation

Select a renovation criteria

### Results: Improvement potential

Current state      Improvement potential

Energy saving	<i>no results</i>
Thermal comfort	<i>no results</i>
Acoustic comfort	<i>no results</i>

# Punch Diag

## Renovation criteria



- 1 - Problems to solve ✎
- 2 - Weather ✎
- 3 - Windows ✎
- 4 - Roof insulation ✎
- 5 - Wall insulation ✎

## Results: Improvement potential



## Problems to solve (multiple choice)



I have humidity problems : damp stains, blistered paint, moisture, fungal developpment, etc.



I feel cold in some locations or rooms while feeling warm in other rooms



I pay too much for heating at home



I live in a noisy environment and it disturbs me even with my windows closed.



Other...

# Punch Diag

## Renovation criteria



#85671676

- 1 - Problems to solve
- 2 - Weather
- 3 - Windows
- 4 - Roof insulation
- 5 - Wall insulation

## Results: Improvement potential

	Current state	Improvement potential
Energy saving	no results	
Thermal comfort	no results	
Acoustic comfort	no results	

## Weather : cold in winter + very hot in summer



In winter, the weather is quite cold and too hot in summer



In winter, the weather is quite cold, but comfortable in summer.



In Summer, the weather is very hot, but comfortable in Winter.



Around my house, the weather not so cold in winter or hot in summer.



I don't know

# Punch Diag

## Renovation criteria



#85671676

1 - Problems to solve

2 - Weather

3 - Windows

4 - Roof insulation

5 - Wall insulation

## Results: Improvement potential

Current state

Improvement potential

Energy saving *no results*

Thermal comfort *no results*

Acoustic comfort *no results*

## Windows



**Deteriorated condition:**  
several of my windows are with simple glazing or I can feel a draught near the window



**State in between:**  
Some of my windows are older than 12 year old or have some defaults like draught near the window, hard to close properly or have a simple glazing.



**My windows are young:**  
My windows are younger than 12 years old, are airtight, have a double glazing and close properly.



I don't know

# Punch Diag

## Renovation criteria



#85671676

- 1 - Problems to solve ✓
- 2 - Weather ✓
- 3 - Windows ✓
- 4 - Roof insulation ✓
- 5 - Wall insulation ✓

## Wall insulation



My walls are not insulated inside nor outside.  
Or  
My house was built before 1975 and no insulation work was done



The majority of my external walls were insulated inside or outside but it was done before the 2000'.

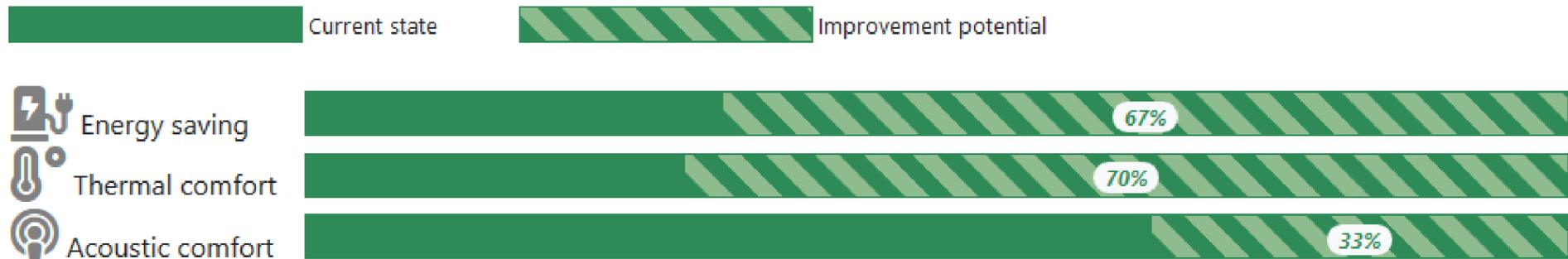


All my external walls were insulated inside or outside after the 2000'



I don't know

## Results: Improvement potential



# What the platform could be in Ireland

# Ireland

As part of the project we set up a Local Implementation Group  
2 half day workshops in June and October 2019

<b>Brian Montayne</b> ESB	<b>Joy Murphy</b> AIB	<b>Gerard Corcoran</b> Hua Wei Technologies	<b>Jamie Goggins</b> NUI Galway
<b>Joe Fitzgerald</b> Ecological Building Systems	<b>Declan Conway</b> Global Sustainability Initiative	<b>Thomas Rogers</b> Cork City Council	<b>Paul Moran</b> NUI Galway
<b>Josephine Maguire</b> SEAI	<b>Fionnán Ó hOgáin</b> Udaras na Gaeltachta	<b>Matt Carroll</b> Dublin City Council	<b>Gary Goggins</b> NUI Galway
<b>Helena McElmeel</b> Helena McElmeel Architects	<b>Andrew Lovern</b> VRM technology	<b>Cecilia Naughton</b> Dublin City Council	<b>Maria Lopez Zambrand</b> NUI Galway
<b>Fergal Murphy</b> Kingspan	<b>Michael O'Rourke</b> Tipperary Energy Agency	<b>Rory Clarke</b> House2Home Retrofit	<b>Pat Barry</b> Irish Green Building Council
<b>Colm O'Mahony</b> 3CEA Three counties Energy Agency		<b>Mark Courtney</b> House2Home Retrofit	<b>Johanna Varghese</b> Irish Green Building Council

# Ireland

And talked with supporters who have contributed their insights

<b>Pat Lennon and James McGarry</b> ESB	<b>John Martin</b> RENOVA	<b>Simon McGuinness</b> Department of Housing Planning Local Govt
<b>Paul Kenny</b> Tipperary Energy Agency	<b>Ciaran Gilsenan</b> Dogpatchlabs	<b>John B Smith</b> KORE
<b>David Widdis</b> Green Watt	<b>Stuart Hobbs</b> SSE Airtricity	<b>Isoilde Dillon</b> Housing Agency
<b>Fergal Purcell</b> Irishtown Ringsend Energy Cooperative (SEC)	<b>JP Corkery</b> National Treasury Management Agency	<b>Michael Hanratty</b> IHER
<b>Robert Deegan and Eileen O'Connor</b> Department of Comms, Climate Action, Environment	<b>Paddy Phelan</b> 3CEA Three Counties Energy Agency	<b>Xavier Dubuisson</b> RETROKIT XD Consulting



# Ireland

What could the One Stop Shop platform be?

Here's what the LIG told us...



### Supports existing retrofit ecology in Ireland

Through a prequalified framework contract



### Makes an offer the customer cannot refuse

High level business case



### Gives information

To make their home better e.g. grants, eligibility, benefits of retrofit, Peer-peer reviews, what you will gain and save, how you will feel, 'how to' videos



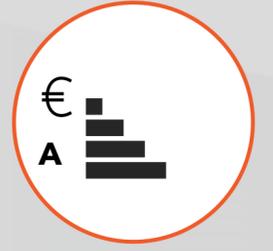
### Gives financing options

can be found and assessed

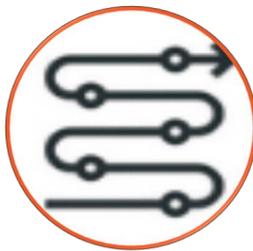


### Guides to grants

a linear guide to complete a grant funded upgrade



### Provides an estimate



BRP

### Shows a Roadmap

Simple, clear road map of retrofit journey common to all projects

Find your building renovation passport / logbook



### Get an independent trusted advisor



### Find a contractor



### Sign contracts



### Works Monitored by the trusted advisor



### Assures the works with a warranty

What could the One stop Shop Platform be?

Energy Retrofit One stop shops Ireland

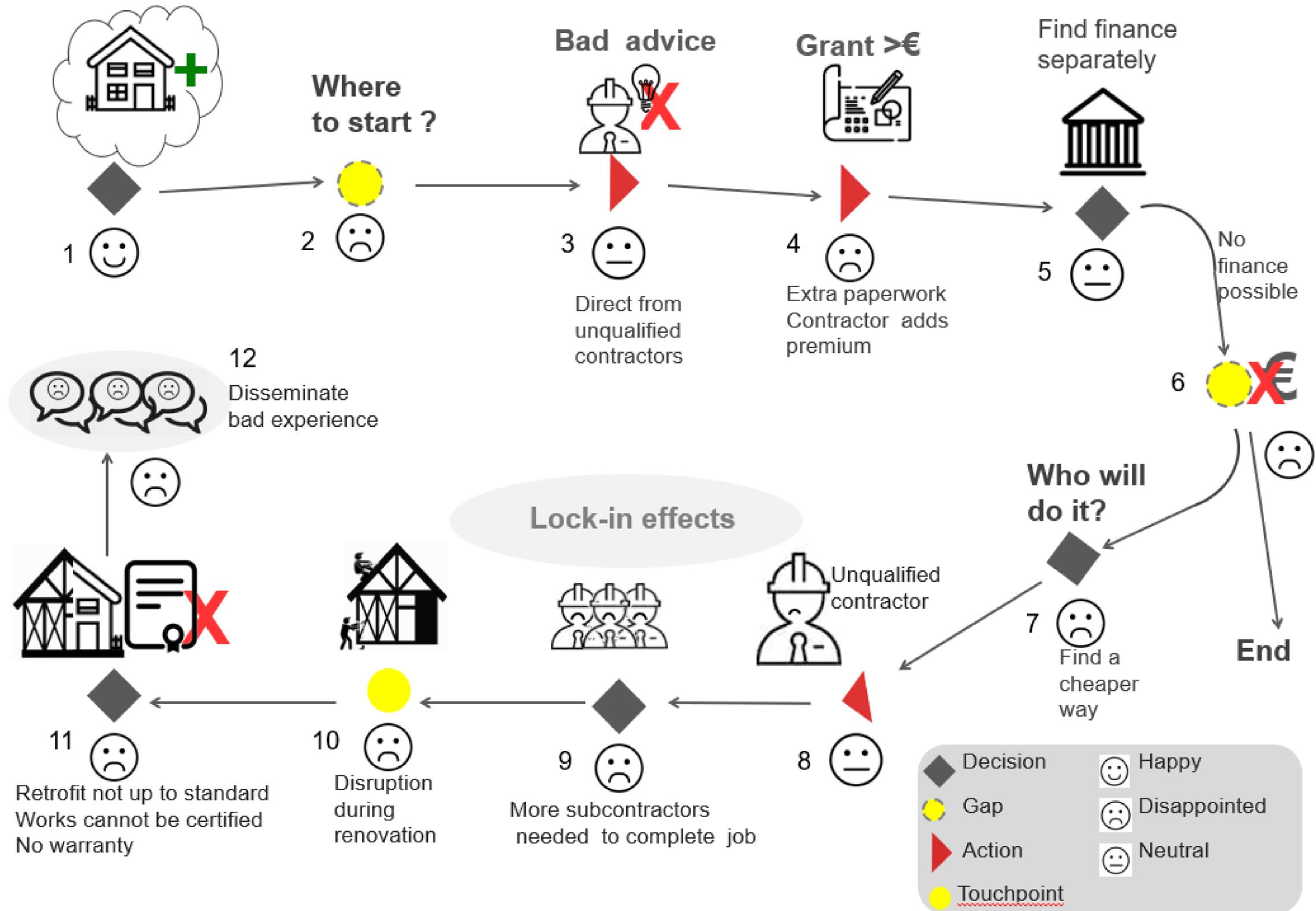
Some of the existing retrofit ecology in Ireland who are doing one stop shops



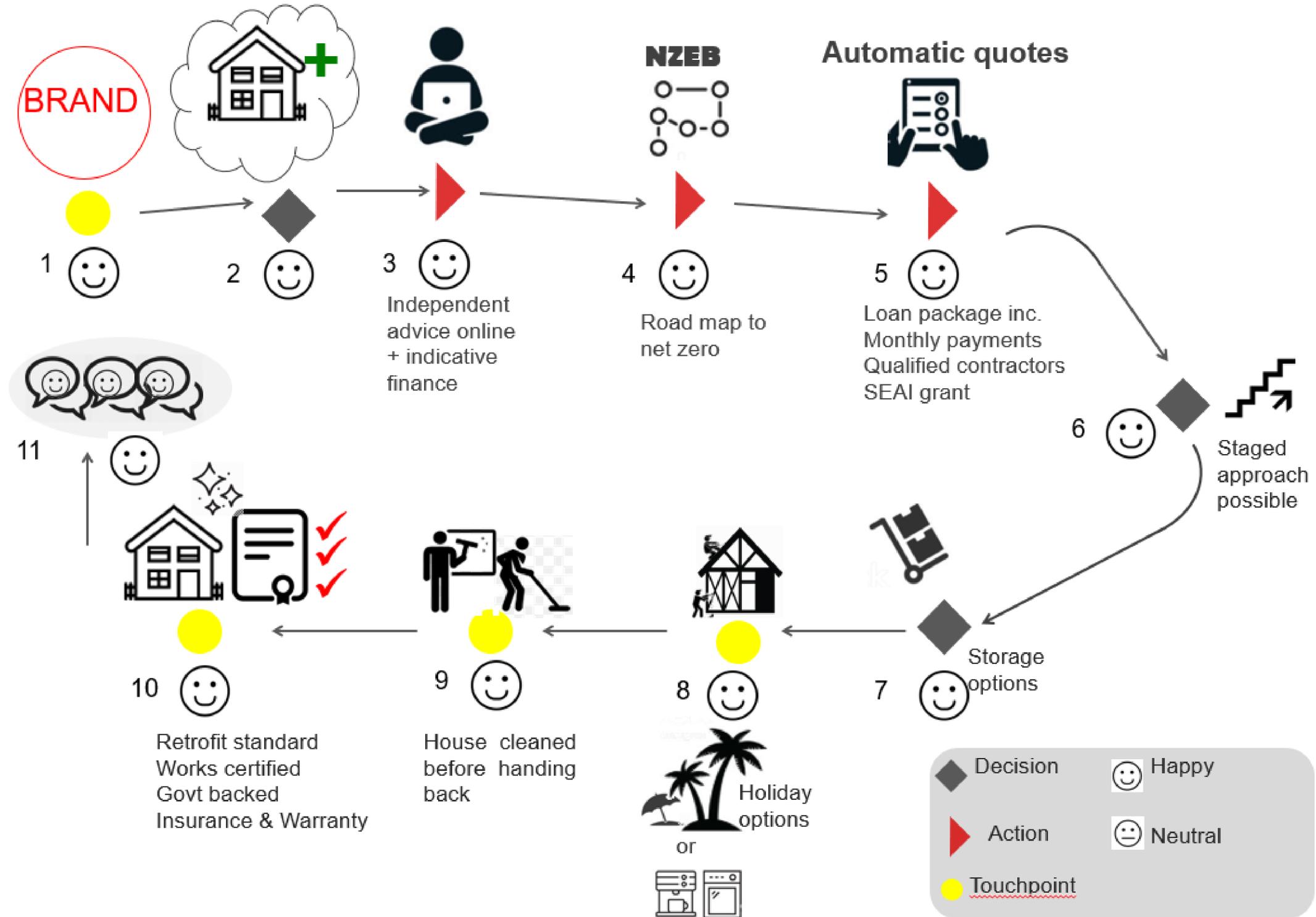

Utility companies One Stop Shop with financing launching end March 2020 assist with energy credits

One stop shop no financing. Main Contractor - assist with grants, energy credits

# Ireland - Existing Customer Journey



# Ireland - Ideal Customer Journey



# What we have in mind for Ireland



# What we have in mind for Ireland

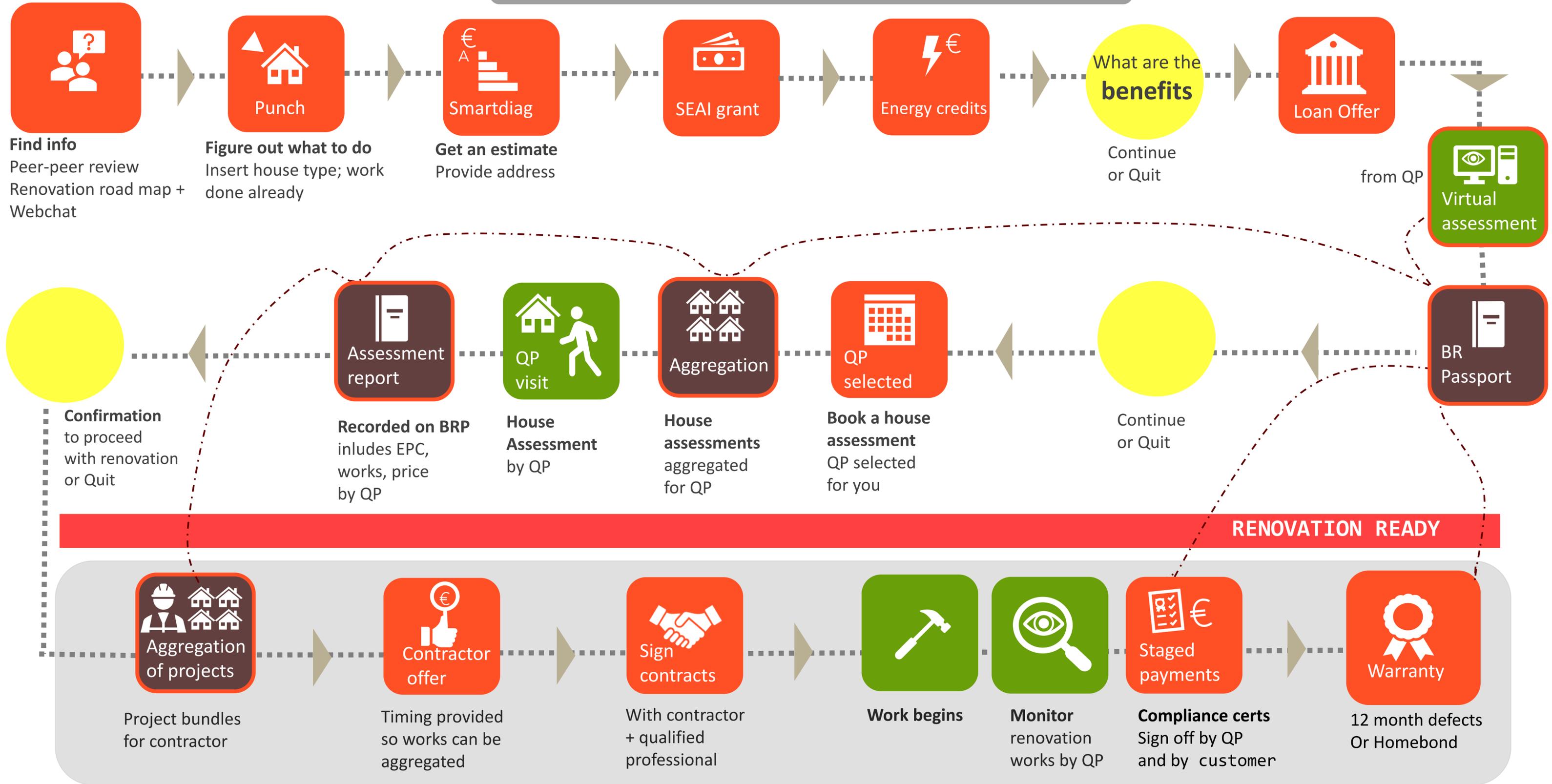
We need to work with you on the adaptation of the French prototype for your national context.

You have worked on the definition of a customer journey for the Irish platform.

We will develop the essential bricks and will need your help on some of the other ones.

The others could be developed in parallel by a partner, outside of TURNKEY.

# Irish One Stop Shop - Flow diagram



QP : Qualified Professional

BRP: Building Renovation Passport

Action on platform  
Brick required

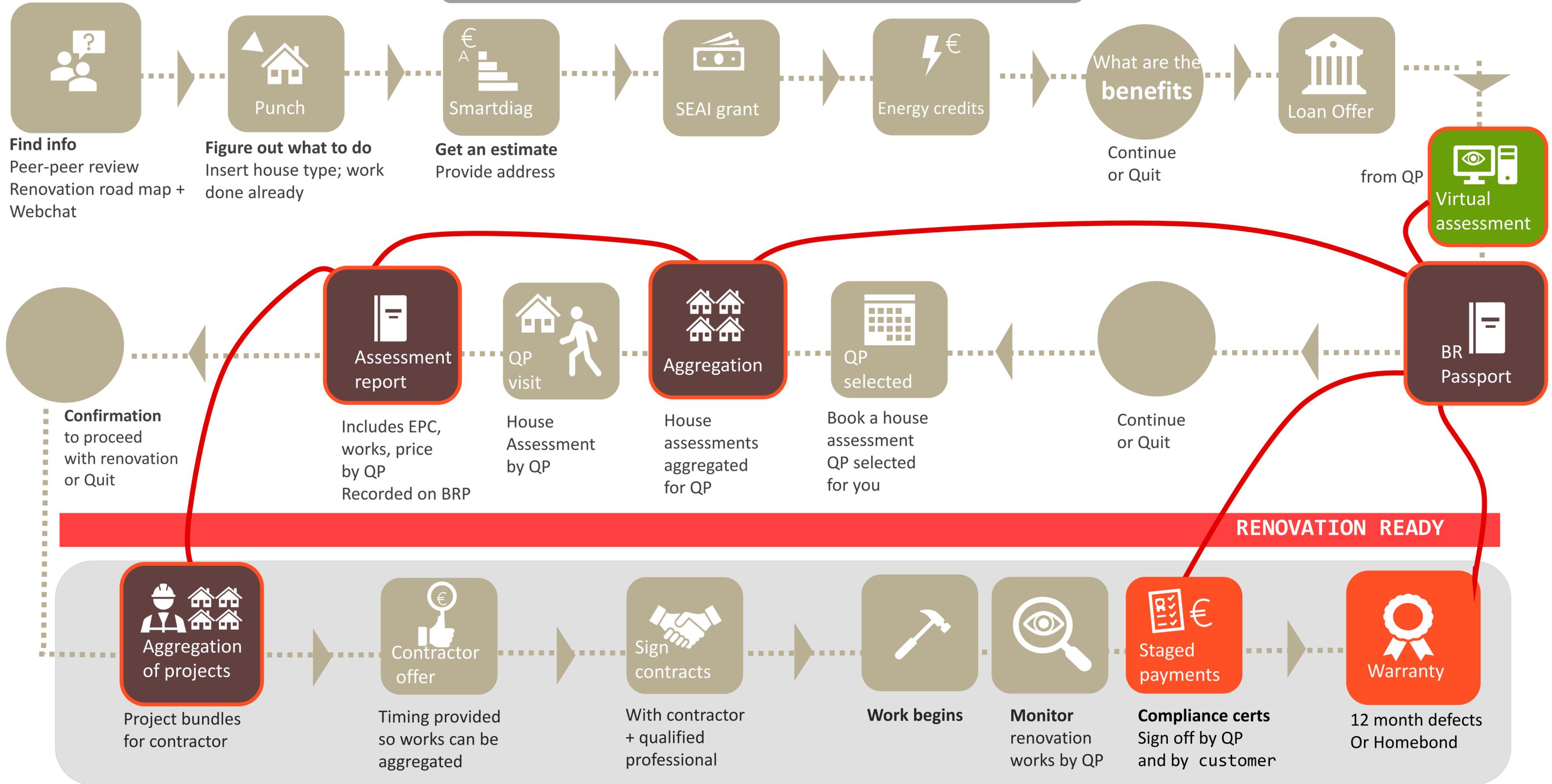
Live Interaction with person  
thru platform - Brick required

Connect to logbook-BRP  
thru platform - Brick required

Decision made outside  
the platform

Action outside  
the platform

# Aggregation on the platform



QP : Qualified Professional

BRP: Building Renovation Passport

■ Action on platform  
Brick required

■ Live Interaction with person  
thru platform - Brick required

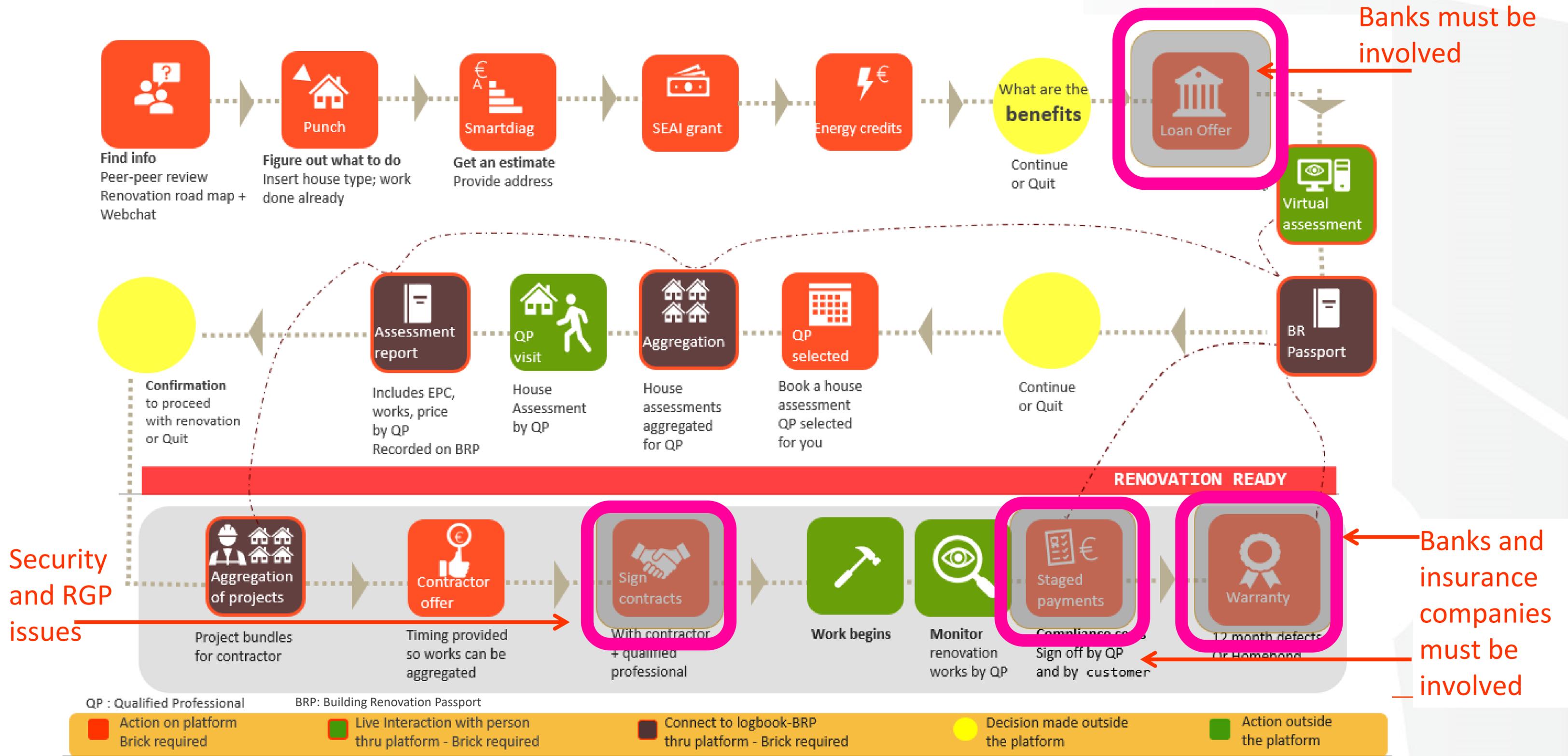
■ Connect to logbook-BRP  
thru platform - Brick required

● Decision made outside  
the platform

■ Action outside  
the platform

# Partners are needed in Ireland to develop the highlighted bricks below

 Need of a partner to develop this brick outside of TURNKEY



Are you interested to support this?

Which organisation could support this ?

# Next step



# What we have in mind for Ireland

We need to work with you on the adaptation of the French prototype for your national context.

You have worked on the definition of a customer journey for the Irish platform.

We will develop the essential bricks and will need your help on some of the other ones.

The others could be developed in parallel by a partner.

**In any case, we need input from you (data, local regulation practice,...).**

# What we have in mind for Ireland - Data required for the adaptation



- Images
- Selection of questions to be asked
- EPC notation



- List of documents to be uploaded
- RGPD



- List of Qualified Professionals



- Cadastral data (land register)
- Climate data
- Building regulations
- Technical building standards
- Priority of work
- Thermal regulations
- Utility costs
- Building work rates/costs



- Description of usual works
- Report format



- List of Accredited contractors



- Contracting local legal rules



- SEAI grant rules and specifications
- Local subsidies and associated legal rules
- Same for the loans

# Data required for the adaptation

For example



- Cadastral data (land register)
- Climate data
- Building regulations
- **Technical building standards**
- Priority of work
- Thermal regulations
- Utility costs
- Building work rates/costs

We will use a study called Tabula Episcopa that has a record of 33 Irish house types

	Detached	Semi detached	Terraced	Apartment
...1899				
1900 -1929				
1930 -1949				
				

<https://episcopa.eu/building-typology/tabula-webtool/>

Which data are already available ?

# What are your reactions to the French OSS platform ?

Should we build on what they've done or do it differently?

How would we adapt it for our Irish context?

**Let's discuss it during our Webinar on the 15th of May  
9h30 to 11h**

If you need more information : <https://www.turnkey-retrofit.eu/>

Please send your questions to Johanna : [johanna@igbc.ie](mailto:johanna@igbc.ie)

**You have until the 5th of May 2020 to do so.**

# Who we are

**9 PARTNERS** (from research, consultancy, engineering companies, non-profit organisations, technology centres) are joining forces to develop the concept in **3 EU COUNTRIES**: France, Ireland and Spain. If successful, the model will be replicated EU-wide.



# THANK YOU!

Caroline Bouteloup CSTB  
Johanna Varghese IGBC



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 839134.