

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

27th of April 2020

Partners

CSTB
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IGBC
IRISH GREEN BUILDING COUNCIL

NUI Galway
OÉ Gaillimh

BPIE

perene



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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.

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

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.

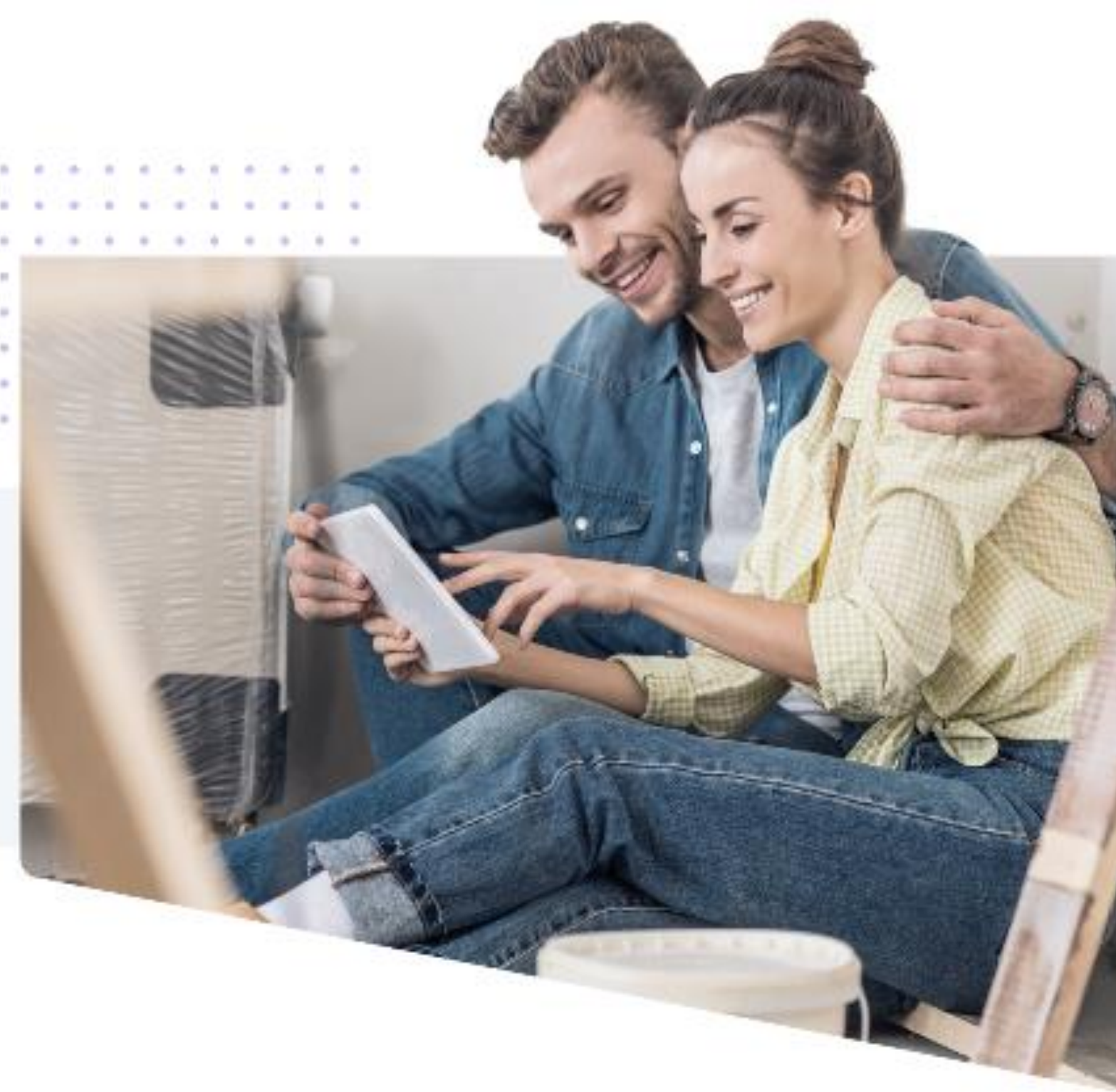
What if we started by your home?

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

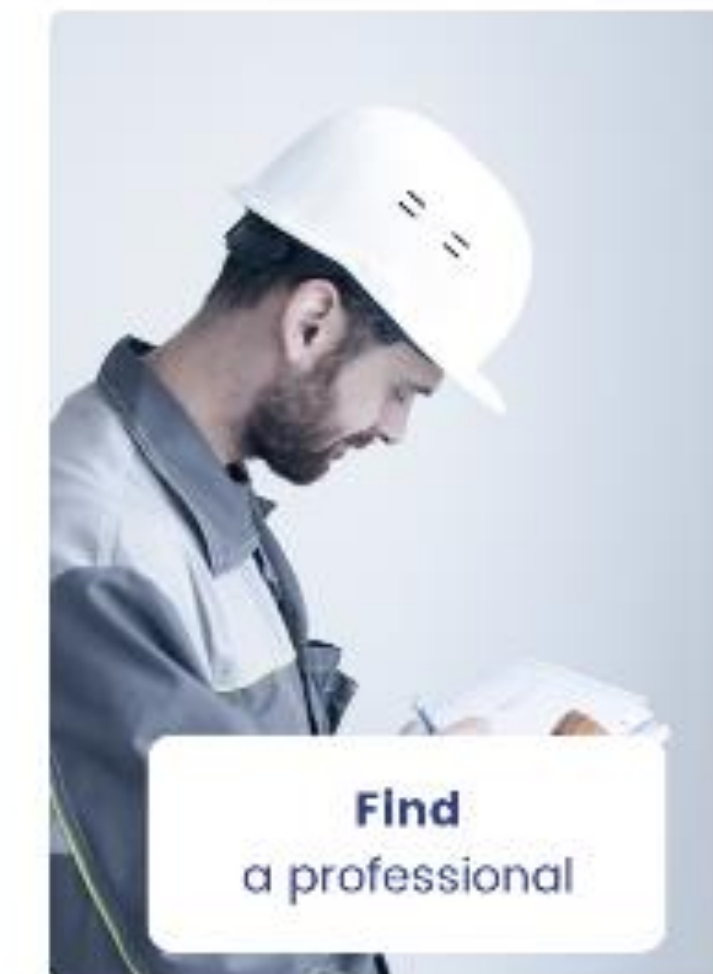
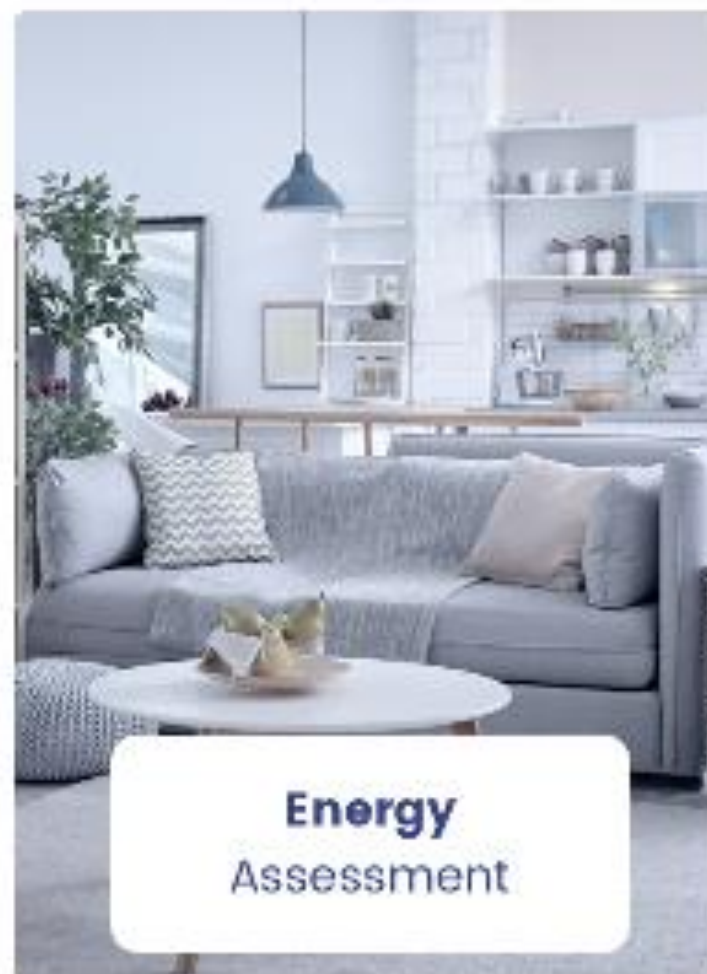
I would like to :

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

SMARTDIAG

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

You can compare it to
the EPC label



24 Rue Louis Malle, 44115 Basse-Goulaine

Locataire : Floriane

Ma maison

Pièces

Cadre de vie

Profil énergétique

Carte

Documents

Car

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.

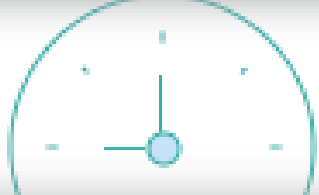
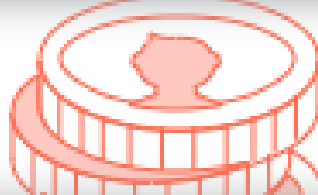


Voir le récapitulatif de mes réponses

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

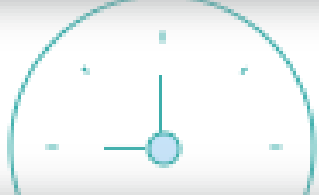
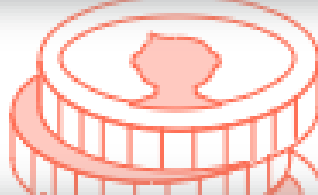

SMARTDIAG

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

|  <i>Initial</i> Les travaux essentiels à réaliser |  <i>Intermediate</i> Les travaux les plus rentables |  <i>Complete</i> Les travaux les plus efficaces pour vos économies d'énergie |
|--|--|---|
| <i>Walls insulation</i> | <i>Walls insulation</i> | <i>Walls insulation</i> |
| Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. | <i>New windows</i> | <i>New windows</i> |
| Installation d'une chaudière gaz à condensation | Installation d'une chaudière gaz à condensation | <i>New boiler</i> |
| Installation d'une ventilation simple flux hygroréglable de type B | Installation d'une ventilation simple flux hygroréglable de type B | <i>Mechanical ventilation</i> |
| Isolation sur le plancher bas | Isolation sur le plancher bas | <i>Floor insulation</i> |
| <i>Save up to 621€/year</i> | <i>Save up to 731€/year</i> | <i>Save up to 1982€/year</i> |
| <i>Cost between 35k€ and 48k€</i> | <i>Cost between 49k€ and 68k€</i> | <i>Cost between 61k€ and 84k€</i> |

SMARTDIAG

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

|  POUR COMMENCER Les travaux essentiels à réaliser |  ALLER PLUS LOIN Les travaux les plus rentables |  EN FAIRE PLUS Les travaux les plus efficaces pour vos économies d'énergie |
|--|--|---|
| Isolation des murs par l'extérieur ✓ | Isolation des murs par l'extérieur ✓ | Isolation des murs par l'extérieur ✓ |
| Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. | Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. ✓ | Changement de fenêtres, porte-fenêtres, ou fenêtres de toit. ✓ |
| Installation d'une chaudière gaz à condensation | Installation d'une chaudière gaz à condensation | Installation d'une chaudière gaz à condensation ✓ |
| Installation d'une ventilation simple flux hygroréglable de type B | Installation d'une ventilation simple flux hygroréglable de type B | Installation d'une ventilation simple flux hygroréglable de type B ✓ |
| Isolation sur le plancher bas | Isolation sur le plancher bas | Isolation sur le plancher bas ✓ |
| Economisez jusqu'à 621 €/an | Economisez jusqu'à 731 €/an | Economisez jusqu'à 1 982 €/an |
| MONTANT TOTAL : de 35 000 à 48 100 euros | MONTANT TOTAL : de 49 500 à 68 100 euros | 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

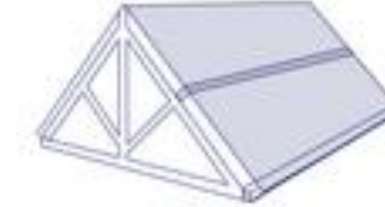
Tell us about your renovation, what would you like to do?



Heating system



Floor, wall and ceiling



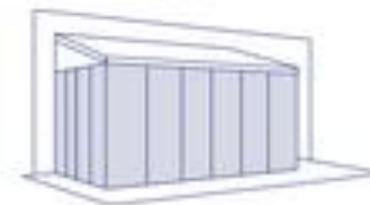
Roof and facade



Windows



Insulation



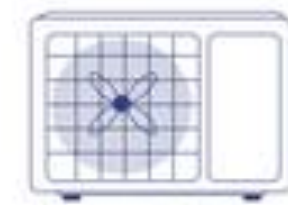
Roof, façade and gable



Solar power



Electricity, safety and
home automation



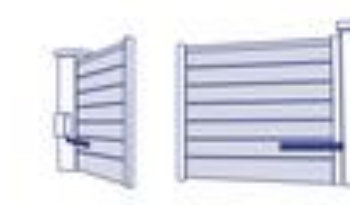
Ventilation and
air conditioning



Kitchen



Bathroom



Outside layout



Global renovation and
expansion



Other



Your renovation



Your home



Your estimate

 10 %

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

m²



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 professionnels

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



Insulation



Heating



Windows



Others



What would you like to change or renovate?

Attic space

Pitched roof

External roof insulation

Roof terrace

Next

FINANCE MY PROJECT

Step 2-Provide
information about the
building

1

2

3

4


Renovation works

Assessment results

Applicant


Confirmation

Housing type :



House

terraced house, detached house, semi detached house, maisonette and duplex



Apartment


↓

Address


ex : 6 rue de la liberté, 44000 Nantes

↓


Energy used for heating your home




Electricity



Gas



Fuel



Wood

↓

What's your address and your eircode number?

To connect to data on the building type.

Yes

No

↓

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.



Classic

448,00 €

Soit 140 000 kWh Cumac

Bonus

623,00 €

Soit 140 000 kWh Cumac



Energy credits and discounts available for each contract signed after (date)

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**



For the insulation of an attic space, the thermal resistance R must be $> 7\text{m}^2\cdot\text{K}/\text{W}$.
For the insulation of a pitched roof, the thermal resistance R must be $> 6\text{m}^2\cdot\text{K}/\text{W}$.
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

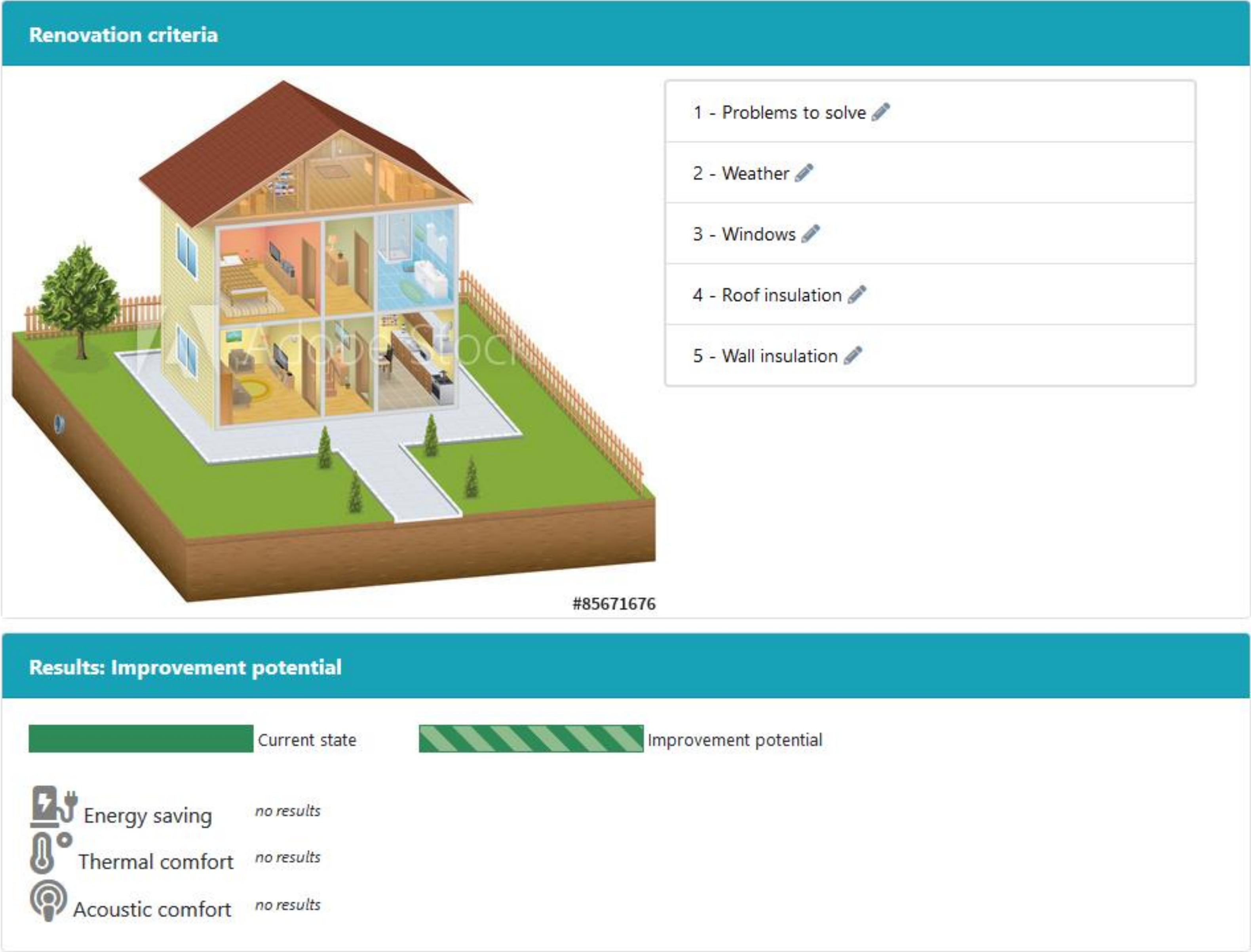
- Punch Diag to attract people's attention on what works they need to do (an example will be shown in the following slides)
- A roadmap to give the right order to follow for the works
- Tools for multi-family buildings and condominiums

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



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


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

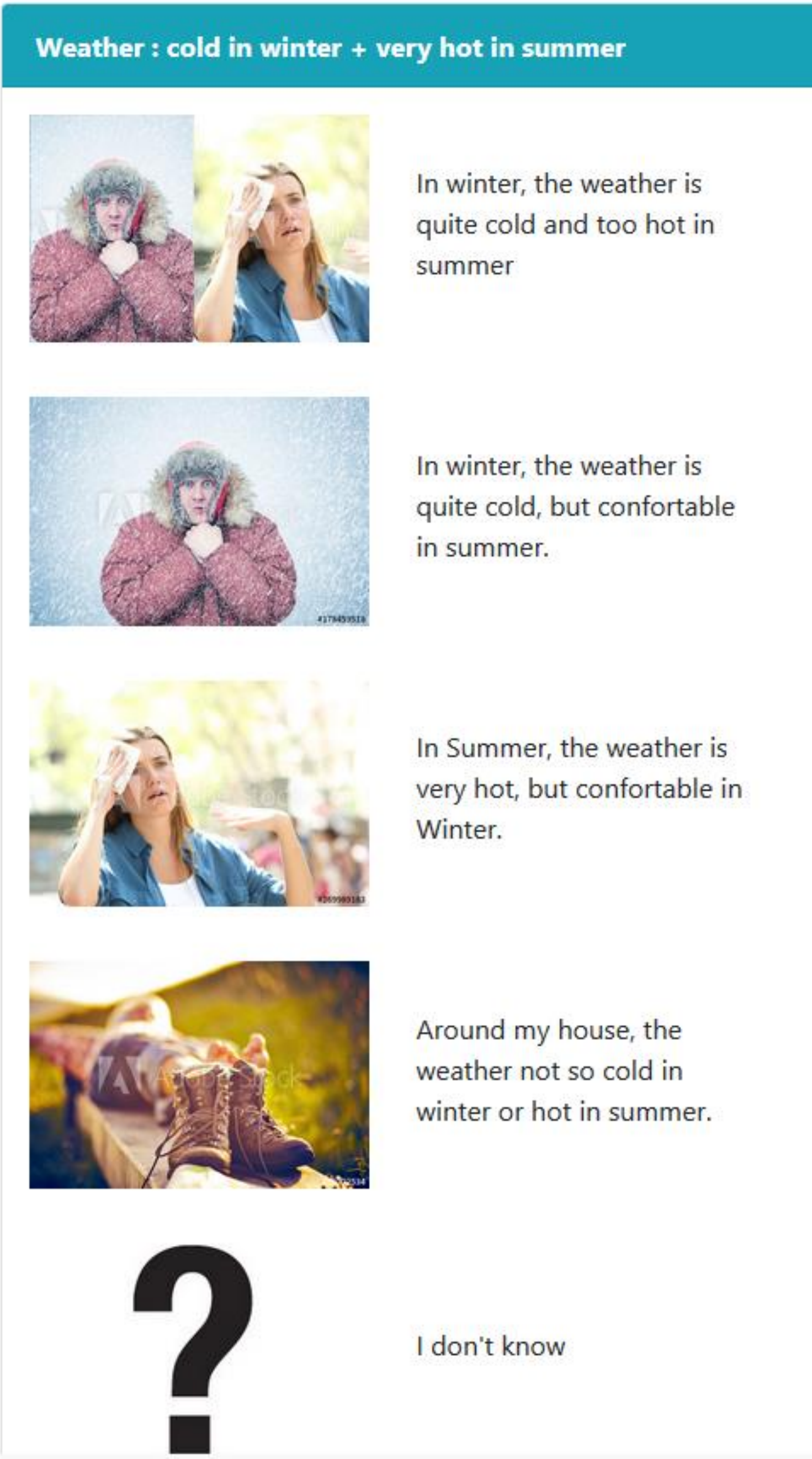
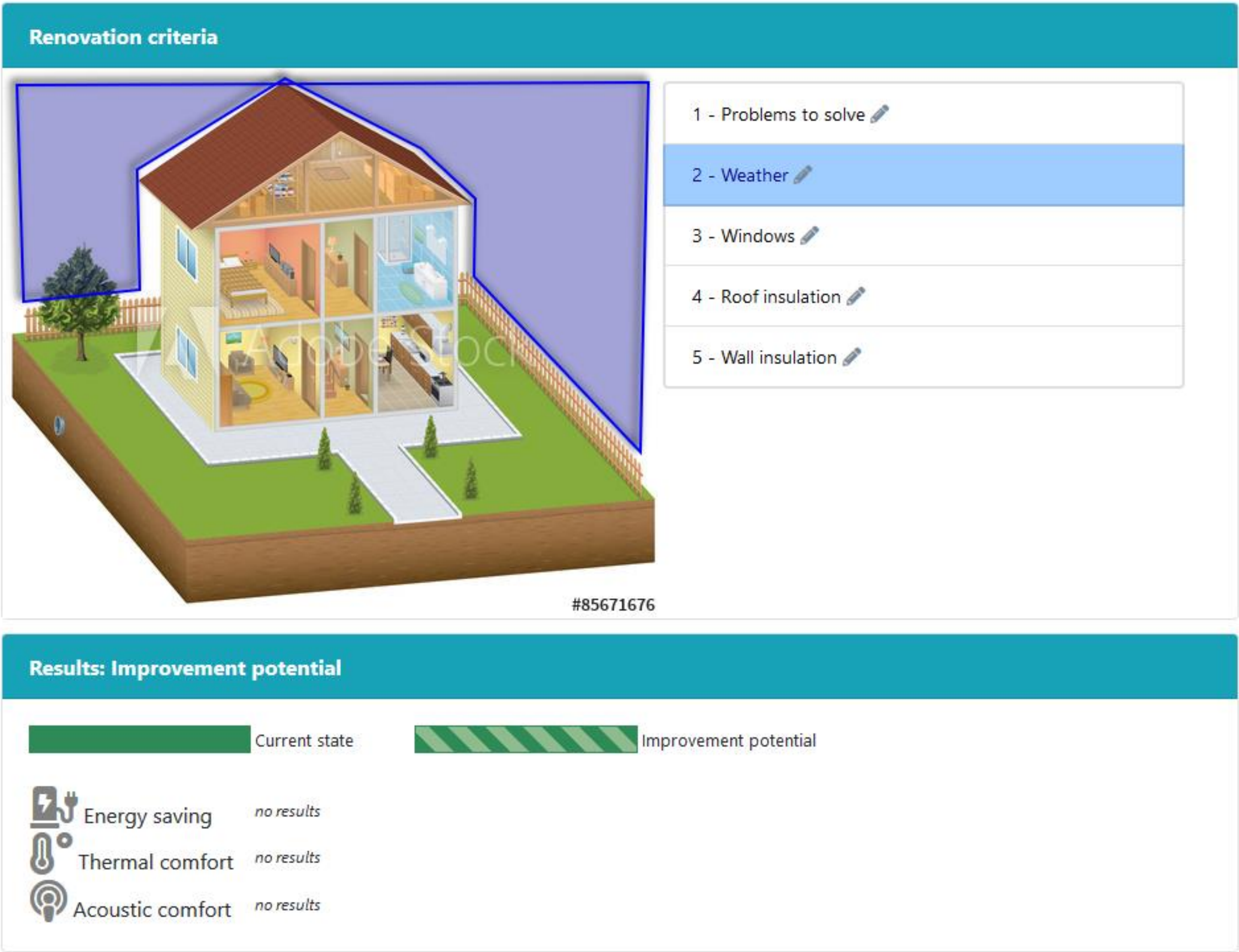


I live in a noisy environment and it disturbs me even with my windows closed.



Other...

Punch Diag



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 ✓

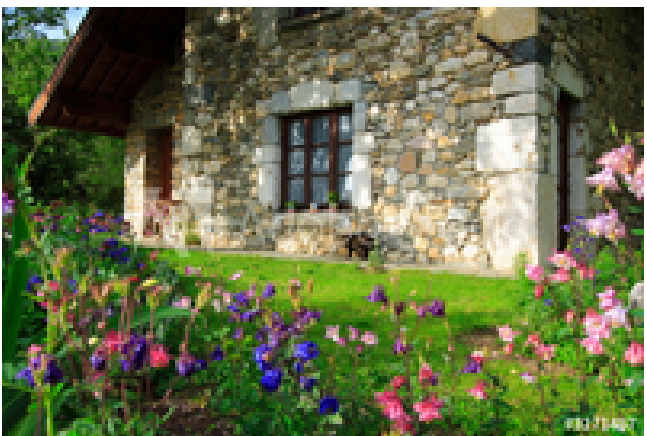
4 - Roof insulation ✓

5 - Wall insulation ✓

Results: Improvement potential



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



TURNKEY
RETROFIT

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

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

Ireland

And talked with supporters who have contributed their insights

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

Ireland Two LIG workshops in 2019



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



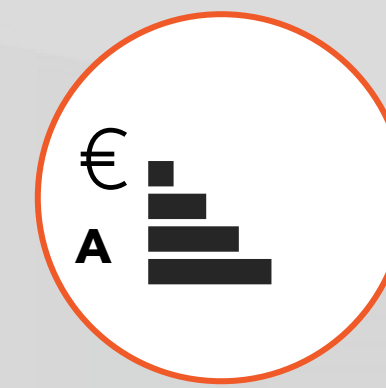
Gives financing options

can be found and assessed

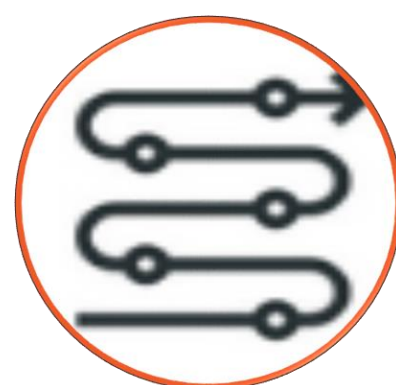


Guides to grants

a linear guide to complete a grant funded upgrade



Provides an estimate



Shows a Roadmap

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

Find your building renovation passport / logbook

BRP



Get an independent trusted advisor



Find a contractor



Sign contracts



Works Monitored

by the trusted advisor



Assures the works with a warranty



**TURNKEY
RETROFIT**

What could the One stop Shop Platform be?

Energy Retrofit One stop shops Ireland



ProEnergy Homes



Home Comfort Financed and Delivered

Energy saving home improvements, end-to-end professional service, a 35% SEAI grant and a low rate credit union loan. **We'll take it from here.**

[LEARN MORE](#) [FINANCE](#)

One stop shop with financing

Partnership ECo + Credit Union - assist with grants

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



RENOVA

CUSTOM HOME RETROFIT

Energy Smart Renovations



One stop shop, no financing. Professional services - Design + Build


- assist with grants



SuperHomes Ireland Enables Homeowners To Retrofit Their Homes To 'A' BER Standard. Grant Support Is Available To Achieve This.



One stop shop, no financing. Independent energy retrofit consultants - assist with grants



House 2Home


Avail of €14,300 grant and incentive funding for your home upgrades

Click here to apply

Home Energy Calculator
Complete Retrofit Package
energía Centre

Consultancy • Building • Windows • Solar/Green Energy • Insulations • Finance

How much could you SAVE? **ARDCOURT LTD** Building & Civil Engineering Contractors **Housing Adaptation Grants** Visit our **Showroom**



Call: +353 49 4336998 (MON) | +44 20

KORE

Build Better, Together.

Grant Funding of 35% - 80%* Available

* If in receipt of eligible social welfare payments





Upgrade to a new gas boiler

Energy Efficiency Incentive Scheme

Making your home energy efficient is Smart. Getting money off your bill is smarter.

[Watch our Video](#)

Utility companies One Stop Shop with financing launching end March 2020

assist with energy credits



LEE THERM

Leetherm

THE ONE STOP SHOP FOR PROJECT MANAGEMENT AND CONSTRUCTION



churchfield

HOME SERVICES

Looking for a warmer, more beautiful home? We can help.

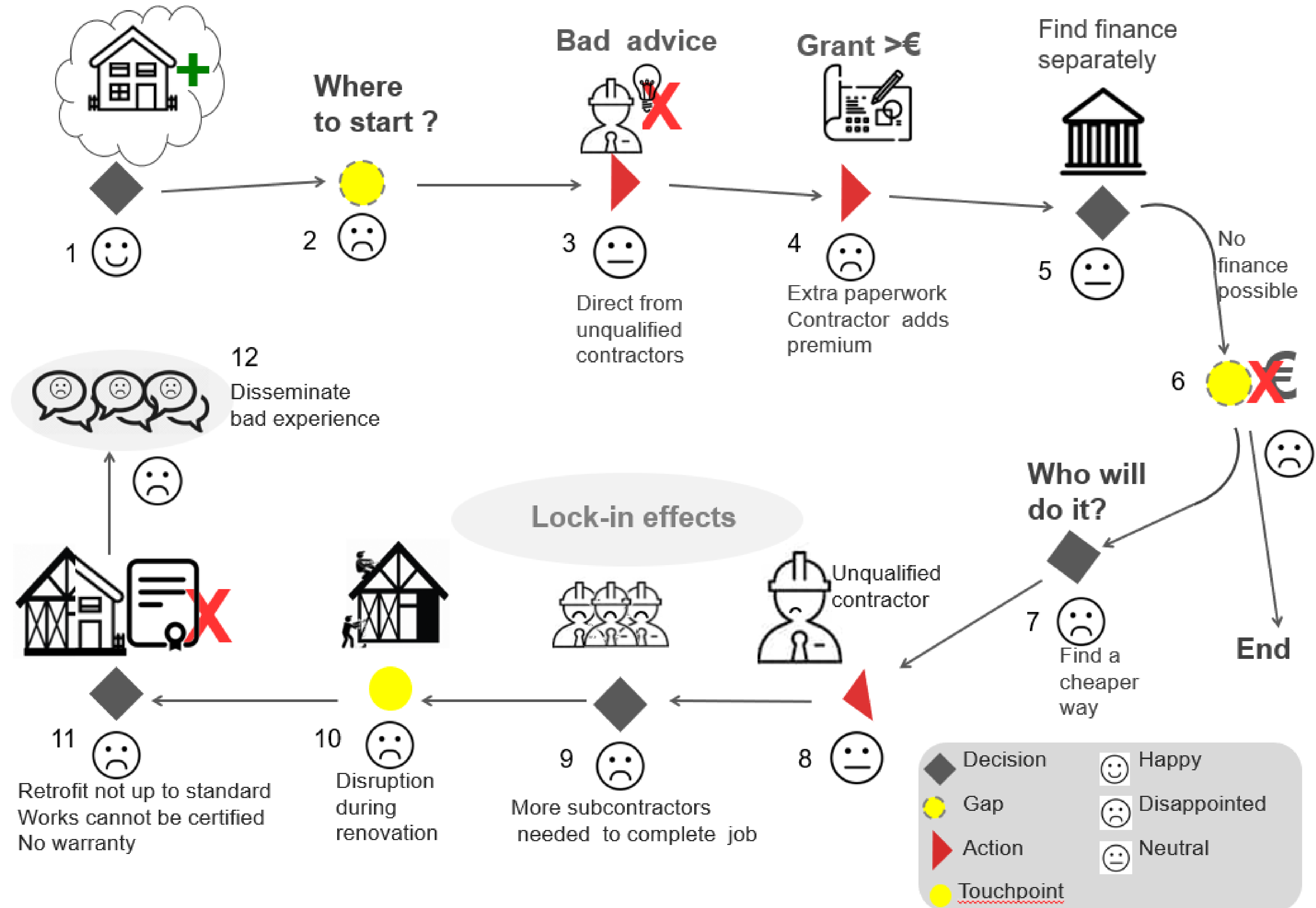
Since 2008 we've helped 4,950 customers transform the comfort of their homes.



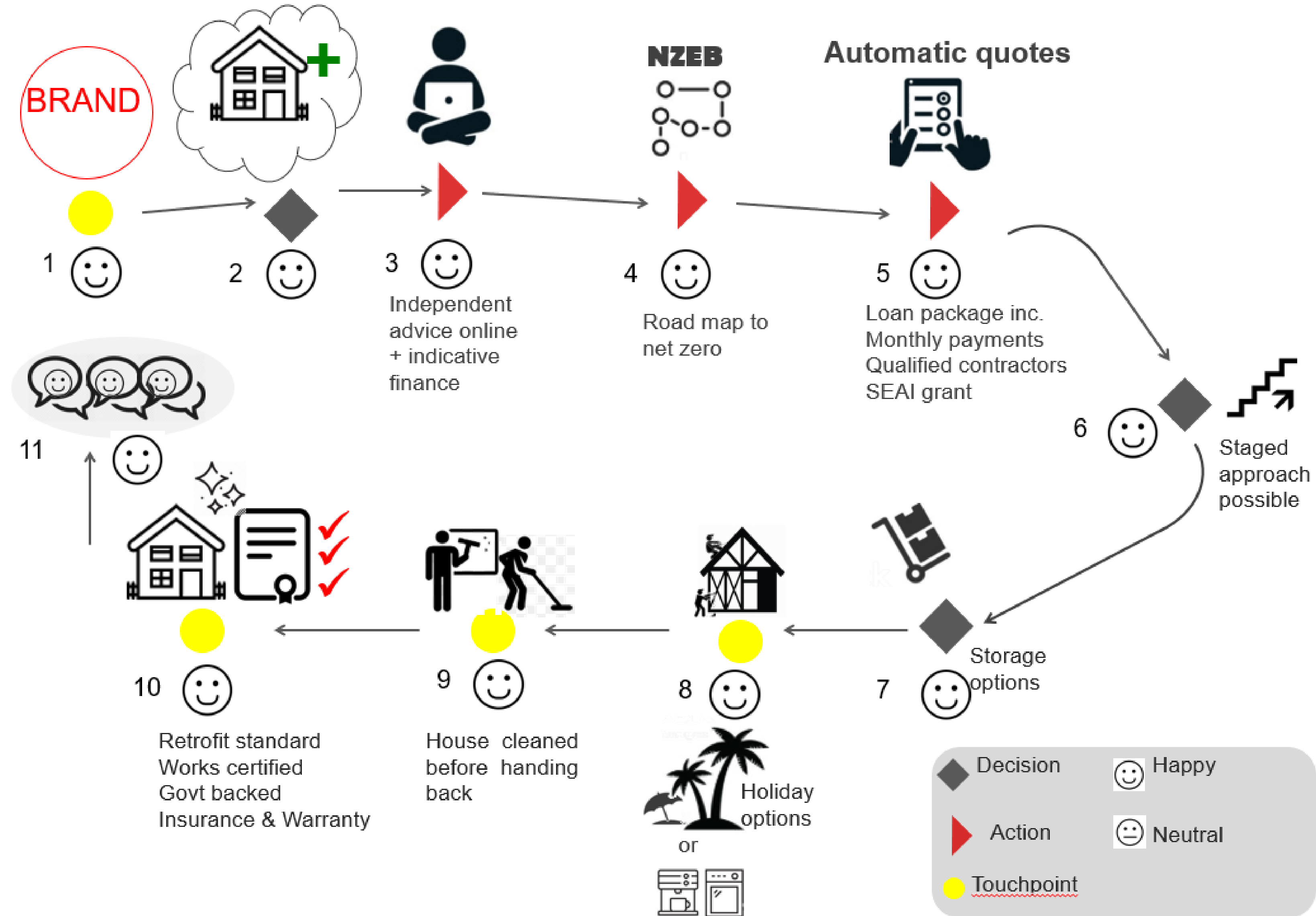
One stop shop no financing. Main Contractor

- 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

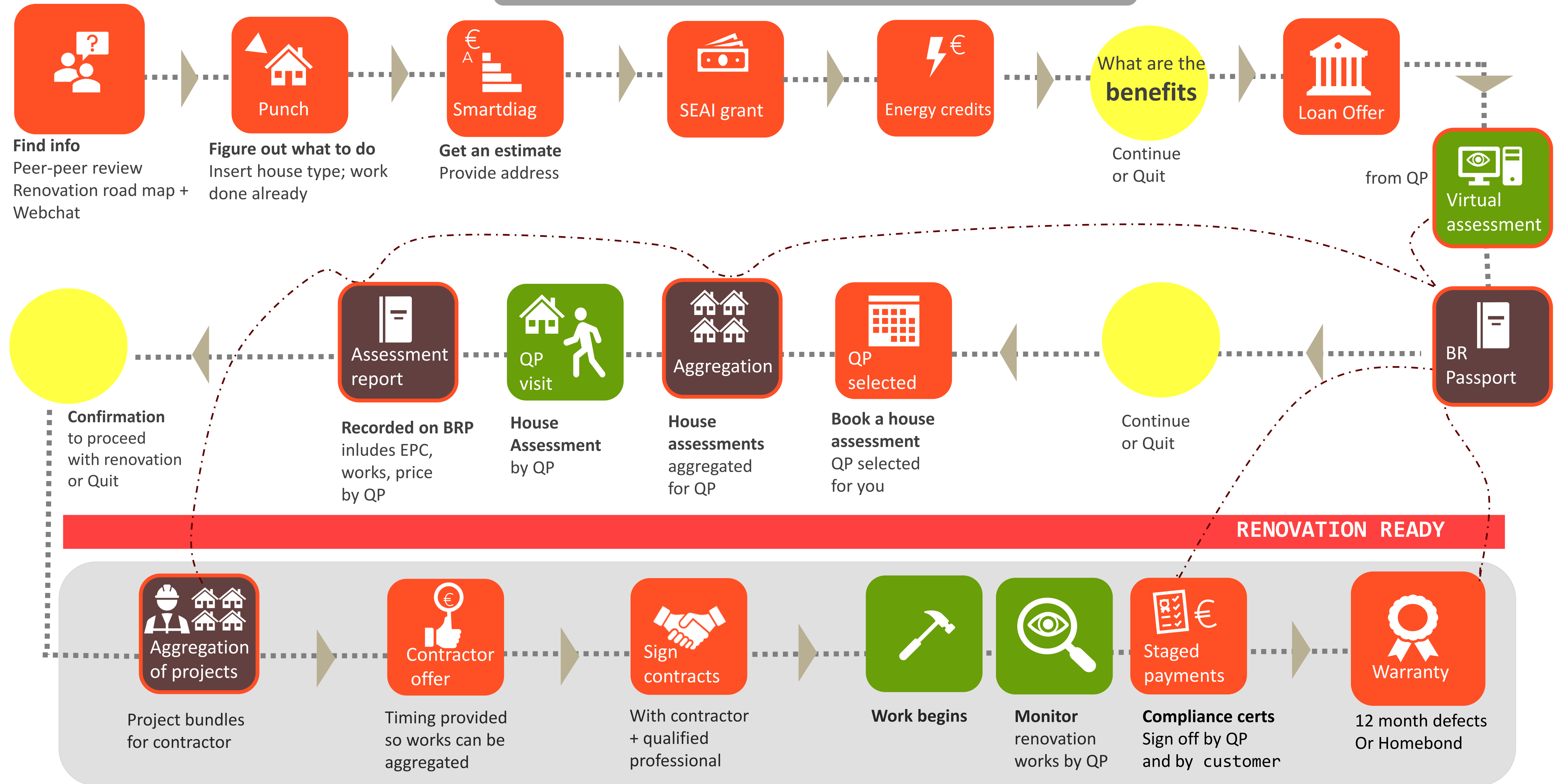
We need to work with you on the adaptation of the French prototype for your national context.

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

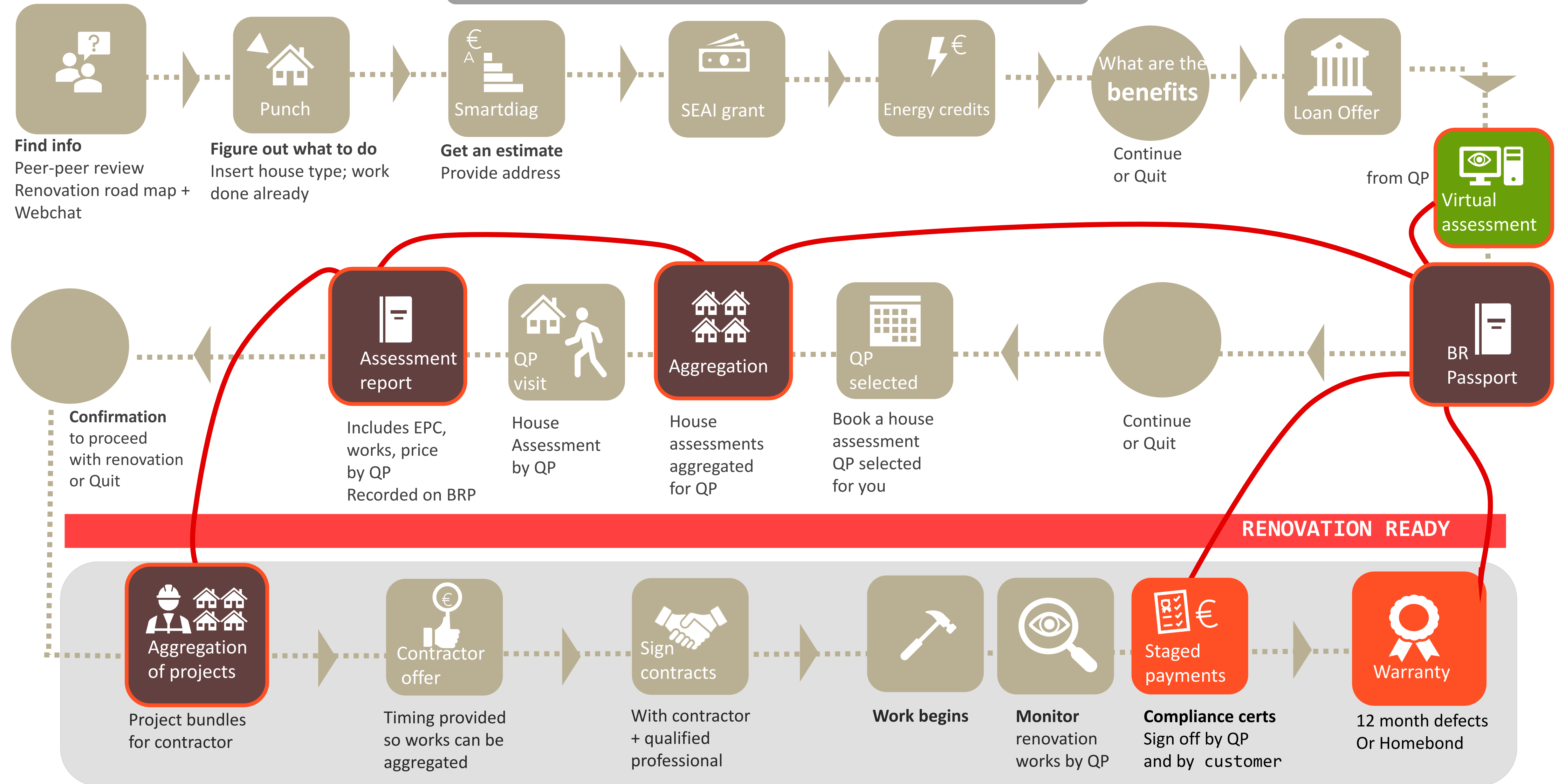


Decision made outside
the platform



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

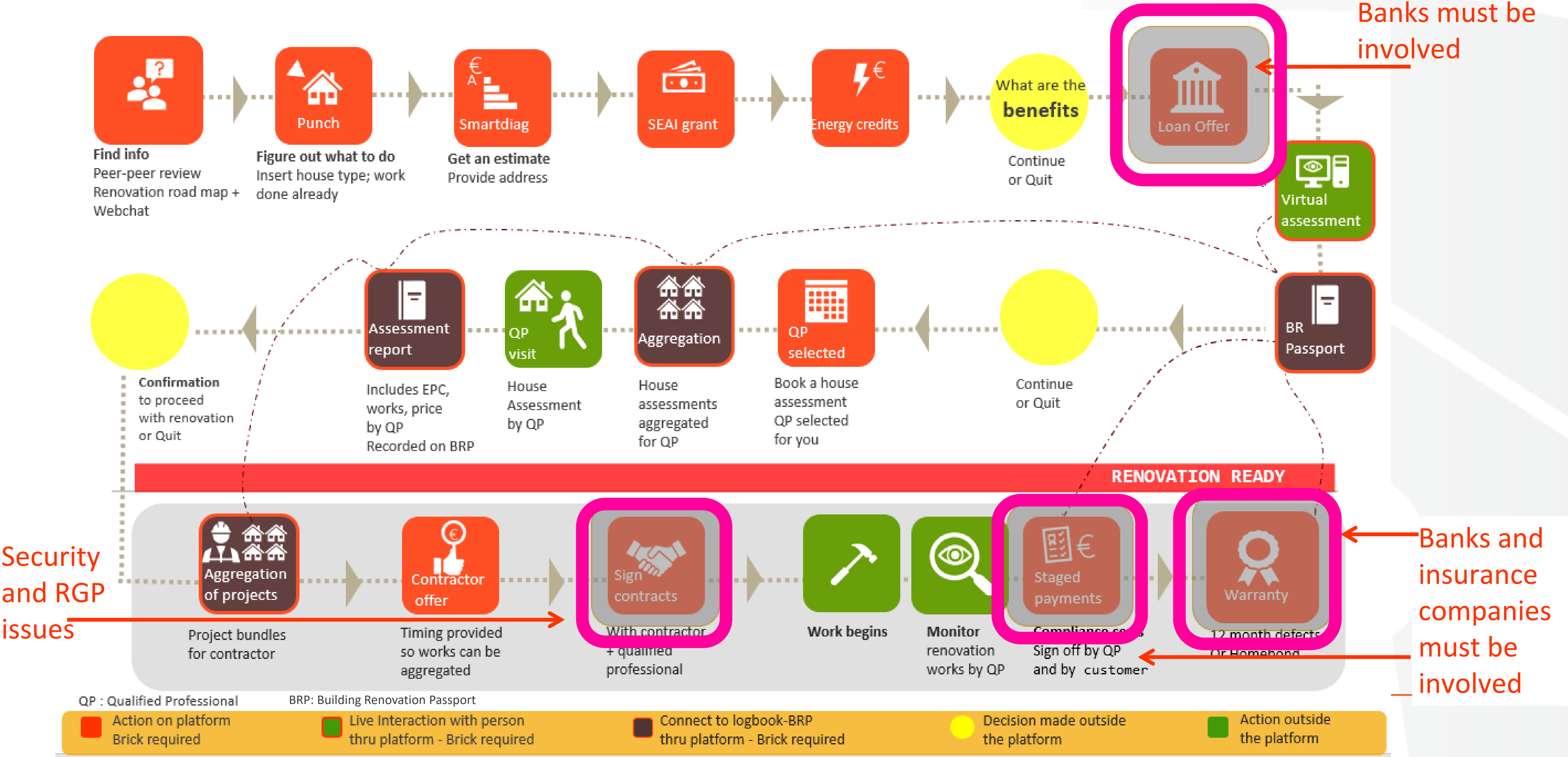
■ Connect to logbook-BRP
thru platform - Brick required

● 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



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



- List of documents to be uploaded
- RGPD



- Description of usual works
- Report format



- List of Qualified Professionals



- 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 Episcopo that has a record of 33 Irish house types

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

<https://episcopo.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

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



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