

# Capacity building: speeding up the energy transition in Moldovan buildings

# Citizen-based building renovation

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## Les 7 Vents in a few words

- → Non-profit SME/Cooperative
- → Created in 1998 in Normandy
- → 25 employees
- **→** 100+ cooperative members

#### Main activities:

OSS, consultancy, training, advice and support

### Main fields of work:

Construction, energy and sustainable development.



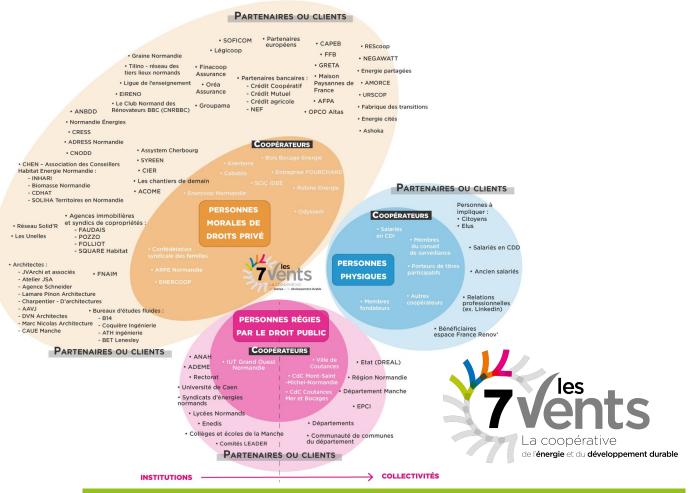
\*OSS: One Stop Renovation Shop

## Les 7 Vents in their networks

Cartographie de l'écosystème des 7 Vents par type de personne et degré d'implication

"It takes a village..."

... to renovate!



## Les 7 Vents in their networks

**National level - FRANCE** 

French networks partaking and/or enabling citizen based renovation



#### France Rénov

National public network of energy renovation counseling



#### RénoAcc

Normandy regional network of supported & shared self renovation stakeholders



#### Réseau CLER

Network of french stakeholders involved in renewables & energy transition





#### Stop à l'exclusion énergétique

Network of stakeholders working on tackling energy poverty based on local solidarity cooperation



#### **Chèque Eco-Energie Normandie**

A regional council scheme to encourage owners of single-family homes to renovate their homes and achieve the Bâtiment Basse Consommation (BBC) (low-energy building) standard

#### **Europe**

European networks with potential to enable and scale up citizen led renovation projects **RESCOPLEU** HANDS FOR HOMES

# Citizen based renovation key features



- Citizens are involved in the governance, ownership, and implementation of the renovation.
- Local, social and economic development is a priority:
  - Local businesses and contractors are involved where possible, in order to increase the local economic multiplier.
  - Often aims to focus on lower income and disadvantaged households.
- Adapted to local conditions, emphasising environmentally and socially sound building practices.



# Focus on 3SR as stated in the CLEAN project



Renovation work is supervised by a professional

Renovation work to improve housing condition

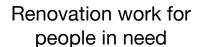


Renovation work is made by a group of volunteers

Renovation work is made by the owner or the occupier

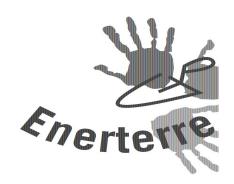
3SR.

Social and Patrimonial.



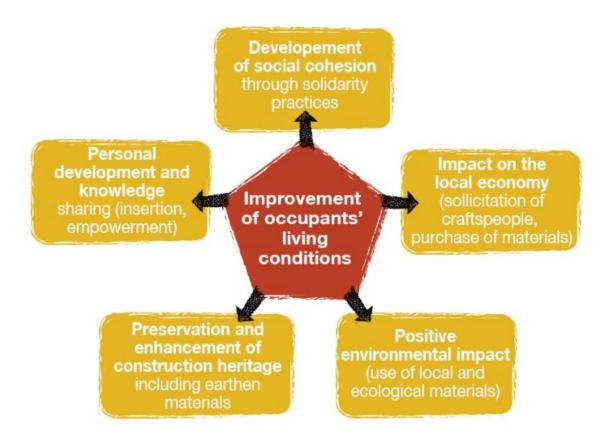
Renovation work respecting heritage and environment





# Citizen led renovation benefits of the practice







# 3SR evolution from Enerterre through EU funded projects





An initiative in France

HANDS FOR HOMES 35R

Social and Patrimonial.

The creation of a concept

A training cooperation project of adaptations in Europe (Erasmus +)

An international network to disseminate

(i.e. via Interreg **Europe CLEAN** good practices)

An innovation project to widen the practice thanks to energy communities

(Horizon 2020)

# **Process adapted to OSS**

Or how to become the center of an enabling dynamic

- •Incoming calls for the France Rénov service
- •Local partners (Enerterre, RénoAcc)
- •Communication about the project at local events

Identification

#### **Pre-diagnosis**

- Situation related to energy poverty definition
- •General refurbishment project and 3SR willingness

•Visit at home •3SR feasibility

Diagnosis

### **Implementation**

Volunteering work day

# Citizen led renovation useful tools & resources

The <u>post-visit diagnosis</u> validates the technical feasibility of the participatory construction/renovation site, that it's safe to welcome volunteers and informs the beneficiaries of the measures to be taken before being able to host the works and the volunteers.







choz elle et a nualisé containe postes de travaux elle-même (magonnerie/finitions). Après 4 ans de traveux cel environmente est posent, lasquant moralement, elle a besein d'être soutenue el accompagnée pour finaliser les travaux de son habitation. Elle est sensible à la préservation du tait ancien et à la portinence des travaux à réaliser. Elle s'est renaeignée via des conférences sur le sujet. When a bien conscience du budget nocessaire à la néaleation de ces travaux et a privu un budget pour refaire sa l'açade principale et eventual lement le pignon Est. N'ayant pas d'entourage disponible pour Feidor dans los traveas. Feccusi i de bonivolos sonet d'une prande aide pour elle. Craignant que les infiltrations no diignadiori son isolation, ollo souhatenat que los travaux soient réalisés avant l'hive

prochain. Copendant, elle a bien conscience du peu de disponibilités des artisans et qu'elle doit d'abord ricaliser los travaux de maconnorie sur cos puverturos Disponibilité des habitants/motivation l'été. Capandant, il est possible qu'elle soit d'en l'abligation de rependre un contrat à temps plain si alle no nitrouve pas de posto sassonner. Elle vit sur place co qui la facilite la gestion du chanter. Le dispositif ARA est pour elle l'occasion d'apprendre à rénover le bât avec des métrodes adaptées, de nor du lien social avec les bénévoles et d'aider à son tour d'autres bénéficiaires. Elle à bain comon le principe du SEL et apprécie le concept, désireuse d'apprendre et de partage Conditions d'accueil d'un chantier avec bénévoles La massen offici tout le confort en intérieur lélectriché, eau poblète, chaufiage, cueine, sanitaire). Un chion out présent sur place, mais il est possible de le laisser à l'imbrour ou dans le jardir cióturo durant la journos. Il y a pou de place pour los withoules des bénévoles, il faudra prévoir de se garer sur le parking du bourg à 5 min à pied. Organisation/ circulation at expects: Il est possible de rentrer un carrion de chanter avec une remorque dans la cour et de mandeuvrer afin d'approvisionner en matériaux. La façade principale sera pratique d'accès, il y a de l'espace pour un échaliaudage et la hauteur de mur est résennable. Le pignon Est 🐠 plus complexe avec l'extension en apples qui complexite l'installation de l'échalaudage. L'approvisionnement en électricité et en sau sera assuré. Il y à des dépendances pour stocker les matériaux et qu'ils à l'abri Sécurité sur chantier Il est précorrisé d'étayor le linteau dans la partie non habitable, compte tenu de l'absonce de magannane sous une partie de linteau et tiese intervenir un entean aven le chamter participaté afin de réseaudni cette problematique. Outre cet aspect il n'y a pas de risque particulier, ni d'aumes artisans et quinters à intervenir sur les lieux en même temps Analyse at compte rendu Le projet d'ARA sur la réfection de la facade est cohément et perferent. Il est réconsaire pour la gosion des problèmes d'infiltration d'eau, d'humidéé et d'infiltration d'air. Cela afin de préserver les porformances de l'isolation et de préserver le bâti dans son ensemble. Madamo est bricoleuse,

comprond bion l'amplour de la táche et dernande de l'ade pour être accompagnée.

do nomaçonnor sous lo linteau la partie tombés.

aurquele cas, il riy a pas de problème particulier.

Quelques interventions privilebles sont à prendre en compte avent le début du chartier si le

projet cet de retiere l'emeantire de le l'açade. Il est conseille de changer un des linteaux en bois de la

partio non habitable, bien ablino, compte tena du projet de réhabilitation à moyen terme. Sur cette

même partie, madame souhaite siguitor une puyenane, il est préférable de l'effectuer avant la réfection

de la lacade, tout comme l'éventuel mhaussement d'une porte. Pour l'aspect sécuritaine, il est demandé

Réaliser l'ensemble de ces actions avant le chartier pernettrait d'avoir un ensemble proprenent tini. Autrement il est aussi possible de se concentrer uniquement sur la parlie habitable

## Citizen based renovation useful tools &

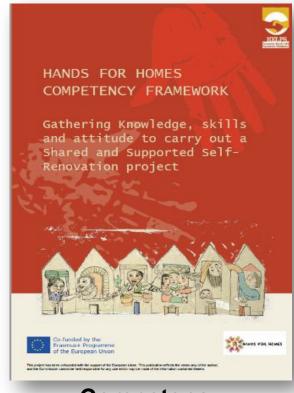
## resources



Charter (2 pages) + leaflet (8 pages) + flyers + videos + facebook + website... "How to" guide (55 pages) + 6 appendices + 7 examples of tools...

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framework (26 pages) + 2x3 days + 1x5 days trainings...

# Limits of the model & context dependent challenges

Legal & regulatory	Insurance of : - Volunteers - Craftsmen - Owners - Worksite - Finished works  Risks linked to the local legal definition of undeclared labour.
Economic & financial	Cost effectiveness of non qualified labour. Cost of materials usually used for heritage and ecological renovation. Ineligibility of volunteers' or non qualified labour's works to national aid schemes.
Human factors	Reluctance on the part of craftsmen, contractors and owners to paperwork to cover risks and define responsibilities.  Householders may not measure the economic, mental and emotional burden of the renovation project.
Business model	Stakeholders targeting vulnerable households can be heavily dependent on donations and public financing. Therefore they devote a great deal of time to it and, by extension, of budget. Same for recruiting volunteers.

# Field solutions and stakeholders' adaptation strategies

Legal & regulatory	Formal adaptations:  - Work with local authorities & insurance companies to create insurance solutions for this practice.  - Awareness and training of insurance workforce to understand this practice and its jargon.  - Compulsory membership of the association coordinating the work for the volunteers.  - Reserve the use of volunteers for only those parts of the project that do not require technical expertise.  Informal adaptations:  - Craftsmen may declare works done by householders of volunteers as their own.
Economic & financial	Informal adaptations : - Craftsmen may declare works done by householders of volunteers as their own.
Human factors	Formal adaptations:  - "Local exchange" systems to get potential beneficiaries involved in someone else's worksite so that they can see how it might go before starting their own.
Business model	<ul> <li>Formal adaptation :</li> <li>Attempts to automate certain sources of funding, such as micro-donations</li> <li>"Local exchange" systems for a stronger involvement of the householders &amp; the volunteers into the local network.</li> </ul>

# What about energy efficiency? Strange KPIs of 3SR when it comes to energy consumption...







# What about energy efficiency? Strange KPIs of 3SR when it comes to energy consumption...

Up
From ZERO to
"Something"

Usually seen with:

- Very bad quality insulation
- Very poor households
- Other causes of vulnerability

# Stable

Same °C numbers, different perception

Usually seen with:

- Buildings that have problems with humidity, lighting.
- Works done on hygrometric comfort.
- Natural materials that can also have an impact on noise

# Down

Less consumption for same or better perception

Usually seen with:

What is conventionally understood by energy renovation

## Recommandations

- Give early consideration to cases where work is carried out by the owners themselves when defining policies, regulations and renovation support schemes.
- Encourage third parties such as insurance companies, banks and operators in charge of compliance and aid to familiarise themselves with this practice and fully integrate it into their services.
- Encourage training bodies for building professionals to adapt processes and practices to the potential presence of homeowners accompanied by the craftsman and possibly volunteers on renovation sites.

# More inspiration on 3SR French examples



Renovation solidarity fund



Volunteering network



Volunteering, craftsmen & householders network



Craftsmen cooperative



ARPE Normandie

Association Régionale pour la Promotion de l'Éco-construction en Normandie



Craftsmen cooperative

# Discussions & what's next? Upcoming projects to follow









Project proposal pending

CLR3

## **SocialNRG**

Project started in 2025

# Thank you!

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## **Useful links:**

**7vents.fr** 

enerterre.fr

energysolodarity.eu

