



# Why ALDREN?

ALDREN (ALliance for Deep RENovation in Buildings) is the extended development and implementation of the

### **Common European Voluntary Certification Scheme (EVCS)**

based on the EPBD Art. 11 (9) and on CEN/ISO standards.

Building professionals are asking for:

- ✓ comparability,
- √ transparency,
- √ reliability,
- ✓ quality.
- ALDREN objective is to create a European quality benchmark based on the Energy Performance Certificate (EPC) and CEN standards



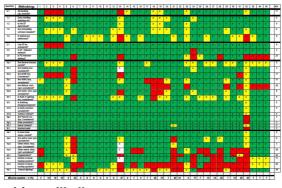


ALDREN ALDREN ALDREN STENOVALION In buildings

« European» transposition is key for the building professionals



Analysis of conformity to Annex 1 of EPBD (calculation methodology) of the 34 !!! national and regional transpositions (Study for DG ENER in 2014)



#### Only an European transposition will allow

- the possibility to work on the "other side of the border",
- the "level playing field" (fair competition) for products,
- to get common databases, common information.

Source: J.Zirngibl, J.Bendžalová, "Technical assessment of national/regional calculation methodologies for the energy performance of buildings ",DG ENER 2015



4

# Why ALDREN?

> Policy support for EPBD implementation

Help Member State to fulfil **revised** Directive on Energy Performance in Buildings (2010/31/EU) (amended by 2018/844)

- improvement of calculation methodology
- improvement of certificates link to subsidies
- building stock observatory,
- cost effective approaches,
- building passport,
- evidence based of expected energy savings,
- wider benefits, Health +Wellbeing



5

# An example: the contribution of the ALDREN project to the transposition of EPBD amended by Directive 2018/844

	T2.1	T2.2	T2.3	T2.4	T2.5	T2.6	T3.2
	Overall	Certificate	Measured	Health	Financial	Building	Training
	integration	EVCS	energy	Wellbeing	evaluation	passport	
Art 1 Amendments Directive 2010/31/EU							
'(2) Article 2a Long-term renov. Strategy							
(g) evidence of expected energy savings							
and related to health, and air quality.							
3. mobilisation of investments							
(b) the reduction of the perceived risk							
(4') Article 7 existing buildings							
high-efficiency alternative systems and							
shall address healthy indoor climate'.							
(6) Article 10							
'6. link their financial measures to the							
targeted or achieved energy savings							

ALDREN outcomes are related to 17 paragraphs of EPBD amendments



6

## Why ALDREN?

- o only about 1-2% of the building stock is renovated each year,
- o only around **15%** of building refurbishments **incorporate** significant **energy efficiency improvements** (energy savings are not the trigger)

one of the **major barriers** to improve building renovation numbers is the **absence**, **of a <u>holistic</u> strategy** to:

- ✓ design,
- √ finance,
- ✓ implement renovation protocols,
- ✓ the lack of a strong relationship between the different stakeholders.
- ALDREN work out a common language describing the holistic approach in renovation (how a thermal bridge can talk to a banker)?





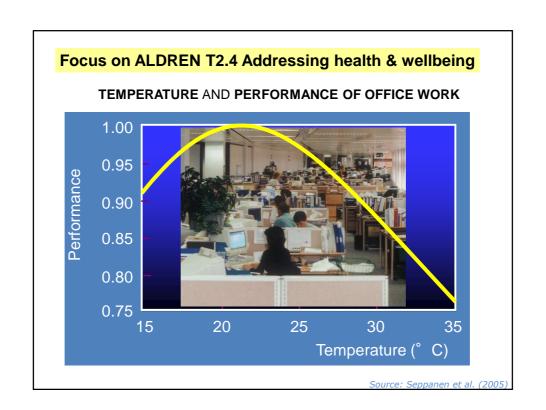
ALDREN ALIGNES ALIGNES

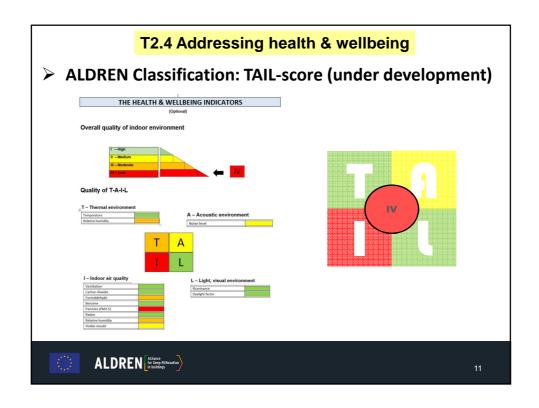
7

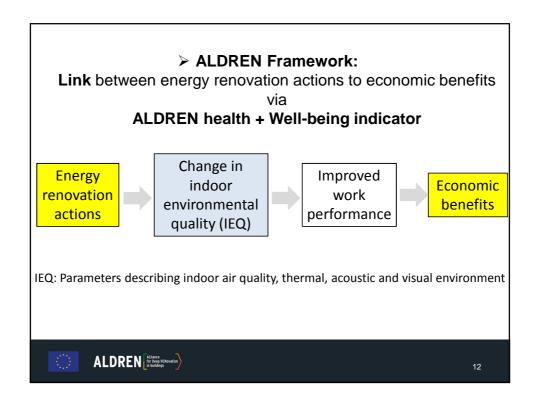
## The ALDREN outcomes / results 6 tasks for consolidation and adaptation of an EVCS (European Voluntary Certification Scheme) based on the ALDREN common language T2.1 Overall integration of components in the EVCS based language T2.3 T2.5 Linking Addressing the EVCS to the Energy rating gap between & targets calculated & valuation actual EP ALDREN Alliance for Deep RENovation in buildings

## [ALDREN] **VOLUNTARY COMMON EU CERTIFICATE (EVC)** ✓ Common template, scale ✓ Common EP indicators and energy class non-renewable primary energy balance (export) non-renewable primary energy (auto-consumption) Additional indicators (EPBD) The entire building's overall energy use Total PE, delivered energy, CO2, energy production, share of renewable energy Measured energy (optional) ✓ Wellbeing indicators (optional) ✓ Energy class after recommended improvements, ✓ Potential energy savings **Recommendations for improvement** → link with the **building renovation passport** EVC - can stand alone or can be included in other existing scheme

ALDREN ALIGNEE for Deep RENovation in buildings







### Conclusion

One common holistic
European Voluntary Certification Scheme
is **better** than

34 national / regional different Certification Schemes.

The ALDREN outcomes are a step forward in this direction towards

the European Voluntary Certification Scheme (EVCS)



13

