Transdisciplinarity for Housing Sustainability

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AIM

• To review theoretical development in Housing;
• To assess practices contributing towards housing sustainability;
• To identify housing sustainability interventions linking theories to practices applying transdisciplinarity approach.

VALUE LEVEL

“What we must do”

Overcome Challenges

- Resources
- Commitment
- Commitment
- Priorities
- Partnerships
- Human behaviour
- Mixed tenure
- Weak leadership

Reduce Impact

- Carbon emissions
- Cost & time
- Fuel poverty
- Stock deprecation
- Market
- Lost information
- High energy use

Sustainable Development

- Economic
- Social
- Environmental
- Development
- Technical

NORMATIVE LEVEL

“What we want to do”

PRAGMATIC LEVEL

“What we are capable of doing”

Integrated sustainability for energy efficiency sustainable housing

Economic

- Increased competitiveness
- Energy affordability
- Energy security
- Reducing resource scarcity

Social

- Improved state of living conditions
- Public health
- Reduce social inequality
- Increase social cohesion

Environmental

- Energy savings
- Energy efficiency
- Reduce carbon emissions
- Material conservation
- Water conservation

Development

- Balanced energy efficiency programmes
- Improved consumer behaviour
- Sustainable development

Technical

- Efficient technologies
- Increased technical capacity
- Exchange of technical support

Translations towards Housing Sustainability

MIXED METHODS

- Extant literature review
- Online survey
- Delphi study

RESULTS

Transdisciplinary Framework for Housing Sustainability

CONCLUSION

• Captured challenges of the energy efficiency problem in housing;
• Engaged housing stakeholders to identify strategic interventions;
• Linked theories to practices;
• Theories & methods cannot be generalised due to its contextual nature.