

Dundalk 2020 - Sustainable Energy Community Project

A platform for sub-regional development

Declan Meally
Sustainable Energy Ireland

SEI – Who we are



National Energy Agency

Sustainable Energy Act 2002

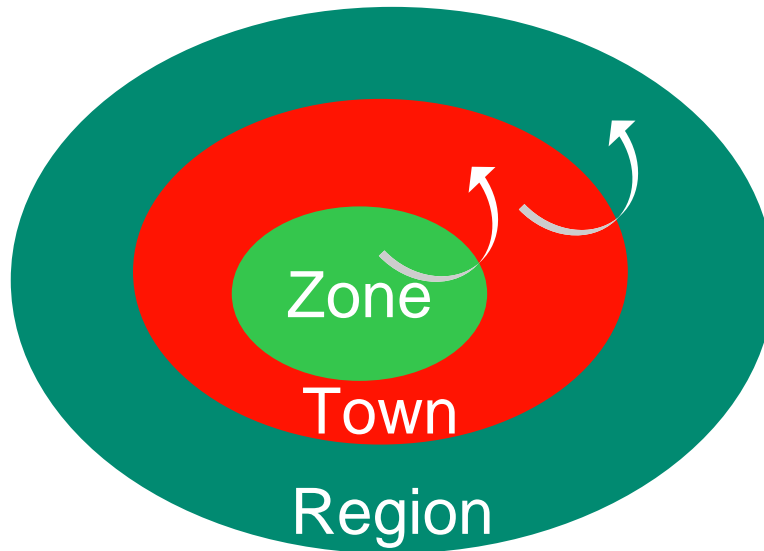
Mission: To promote and assist the development of sustainable energy



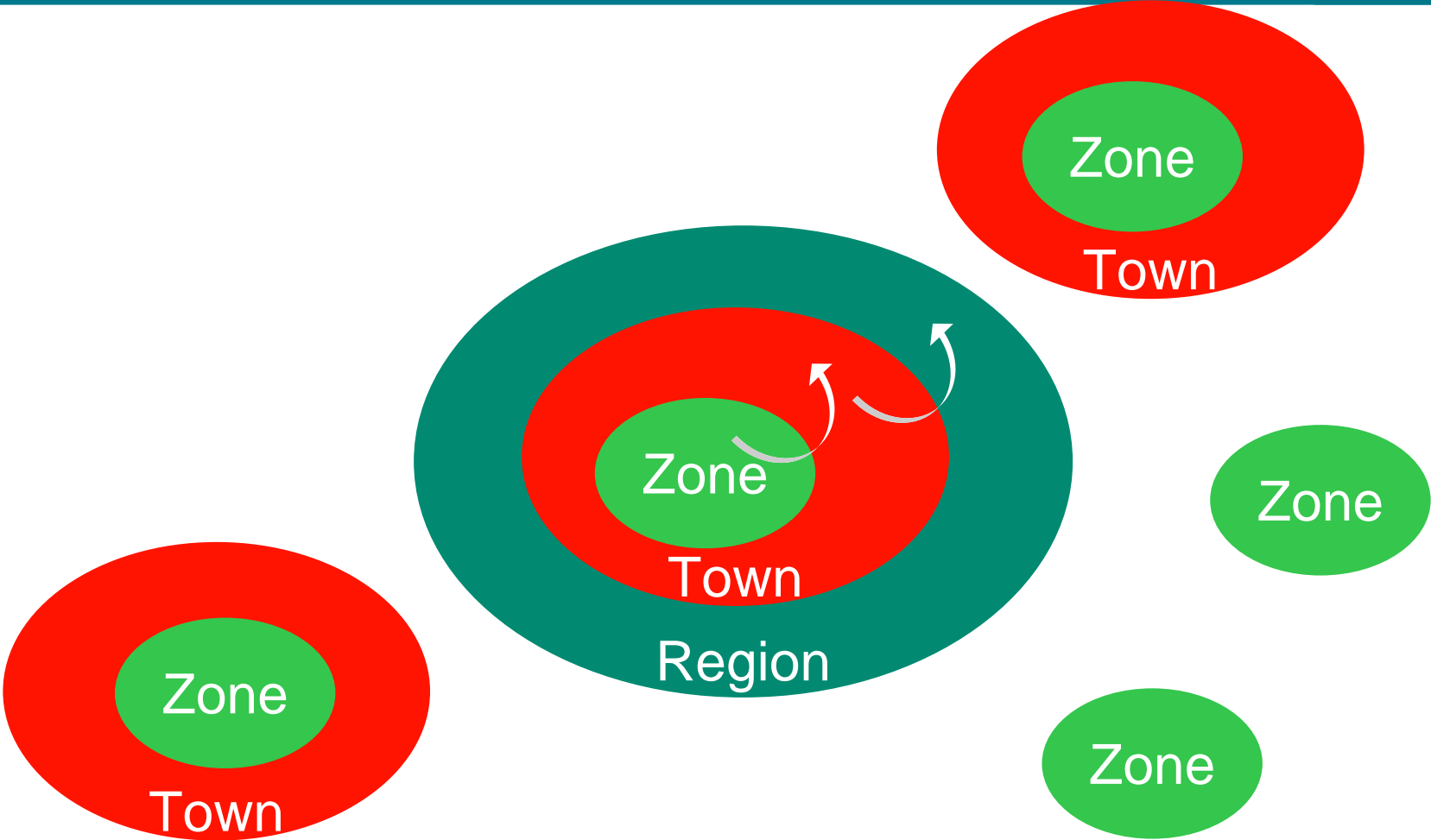
The Vision

The Vision... to stimulate a national move towards sustainable energy practice through demonstration in an exemplar community

Dundalk 2020 Sustainable Energy Communtiy

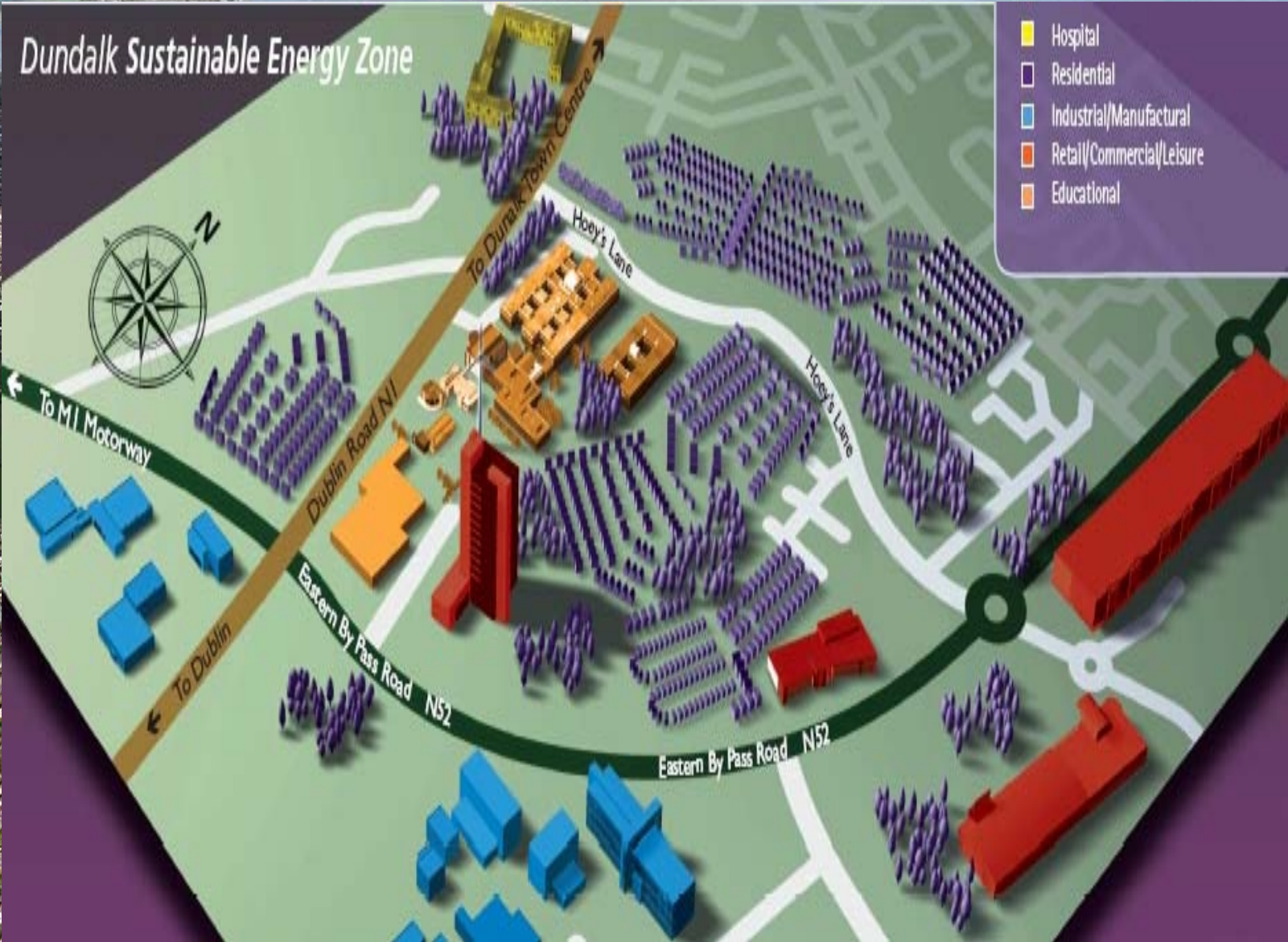


Dundalk 2020 Sustainable Energy Communities



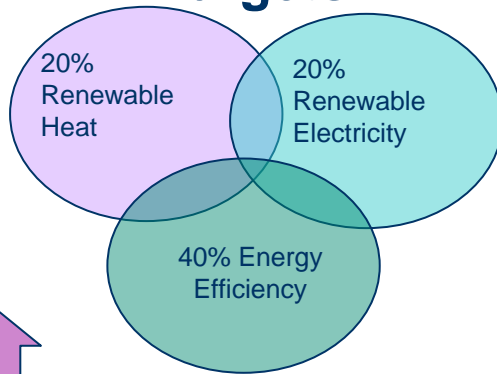
Dundalk Sustainable Energy Zone

- Hospital
- Residential
- Industrial/Manufactural
- Retail/Commercial/Leisure
- Educational

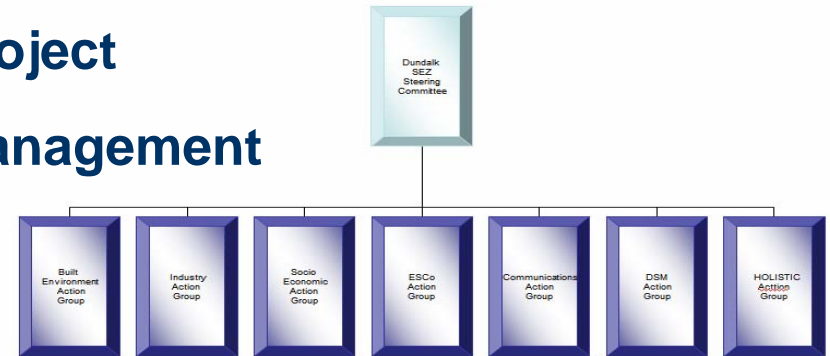


Dundalk 2020 Project Management Process

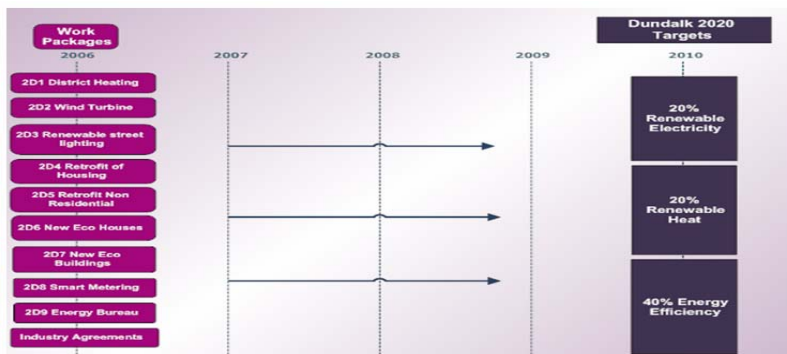
Targets



Project Management



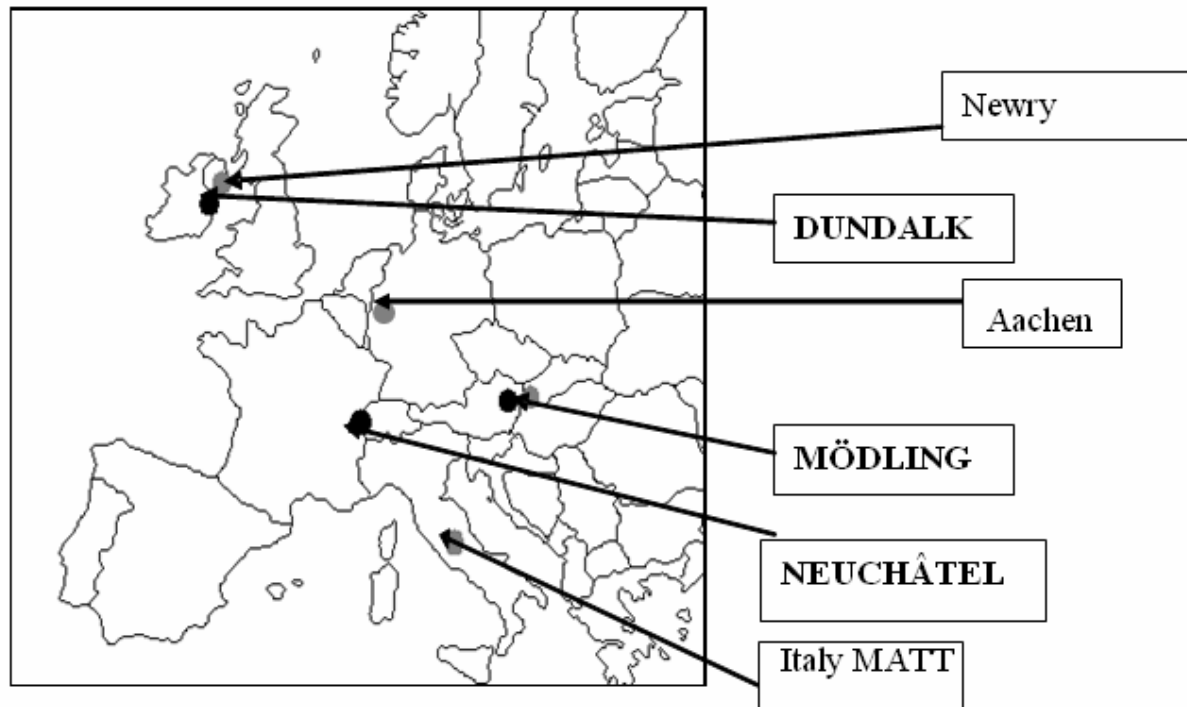
Project Plan



Management Process



Concerto – HOLISTIC Europe



Holistic **O**ptimisation **L**eading to **I**ntegration of **S**ustainable
Technologies In **C**ommunities

Dundalk Sustainable Energy

Non residential refurbishment

New energy efficient homes

Residential refurbishment

Advanced metering trial

Renewable Street lighting

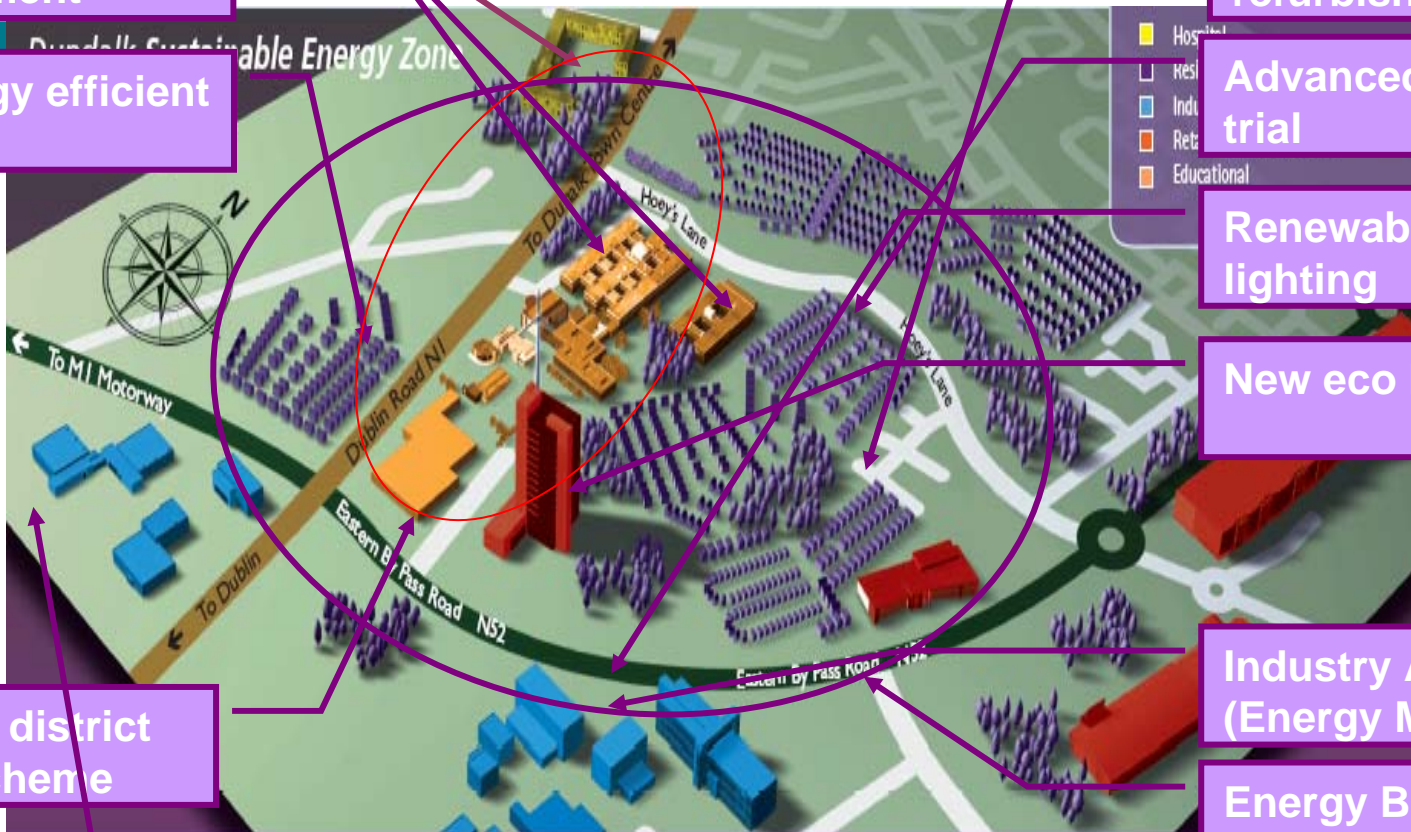
New eco buildings

Industry Agreements (Energy MAP)

Energy Bureau

Woodchip district heating scheme

Wind turbine - industry



Partnership



- Dundalk Town Council
- Louth County Council
- **Newry & Mourne District Council**
- Dundalk Institute of Technology (DKIT)
- IDA
- Enterprise Ireland
- Dundalk Chamber of Commerce
- ESB Networks
- ESB Customer Supply
- HSE – Louth Hospital
- Dept of Education
- Xerox
- Heinz
- Crowne Plaza Hotels
- Building Developers – Bennett’s (Green Park) , Adston Developments
- **CENTRAL GOVERNMENT BUY-IN**
- Others

Commitment

- “Dundalk Inc” – adopting sustainable energy business as a main theme.



- Dundalk 2020 Charter agreed and business leaders signing up

Dundalk 2020 Charter

leading Ireland towards a sustainable future

Our vision... to stimulate a national move towards sustainable energy practice through demonstration in an exemplar community.

The Dundalk 2020 project seeks to demonstrate how a community can move to a more sustainable pattern of energy supply and use. This project is to be an exemplar, first within the town of Dundalk, then the surrounding region and ultimately to Ireland as a whole.

The project will achieve a substantial increase in the use of renewable energy, a significant improvement in the energy performance of the built environment, the provision of intelligent management of the supply demand balance and greater energy autonomy for the community.

This project is initially focused on the Dundalk Sustainable Energy Zone, which is a defined area of approximately 4 square Kilometres that contains every element of a community (housing, education, hospital, industry, retail and leisure).

The targets set for the Dundalk Sustainable Energy Zone are to achieve a reduction in carbon dioxide emissions as follows:

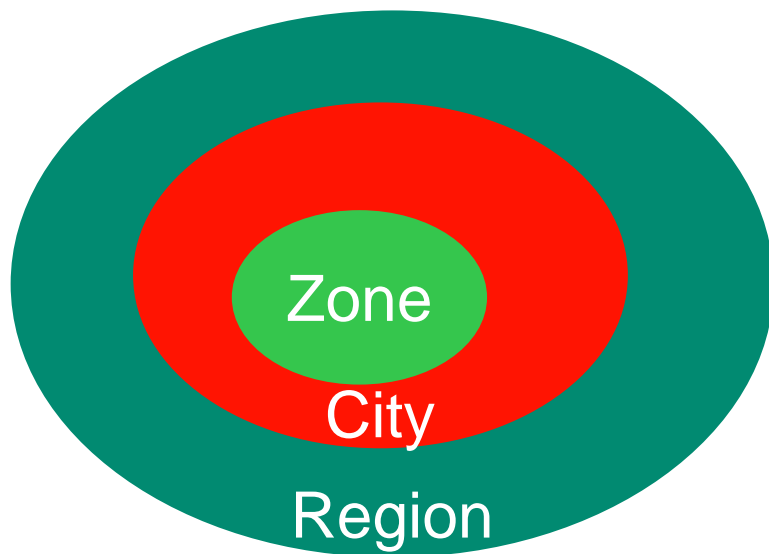
- 20% of the heat required within the zone to be supplied from renewables
- 20% of the electricity required within the zone to be supplied from renewables
- And 40% greater energy efficiency in designated buildings
- All the above to be achieved by 2010

The undersigned are fully supportive of the aims and objectives of the Dundalk 2020 project and have each committed:

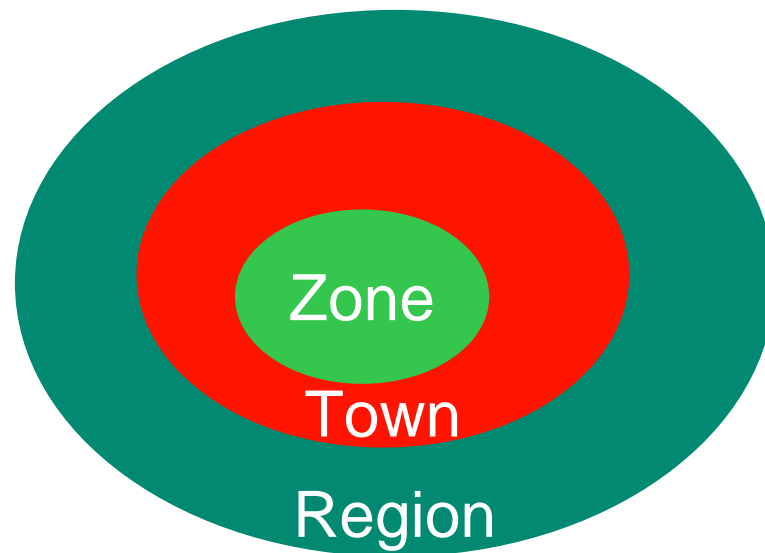
- To use their best efforts to advance the project and all its constituent parts
- To collaborate fully with other participants in the project
- To make appropriate resources available to support the project
- To promote the project and the theme of sustainable energy that underlies it
- To participate actively in the Dundalk 2020 Project

Signees:

Sustainable Energy Communities

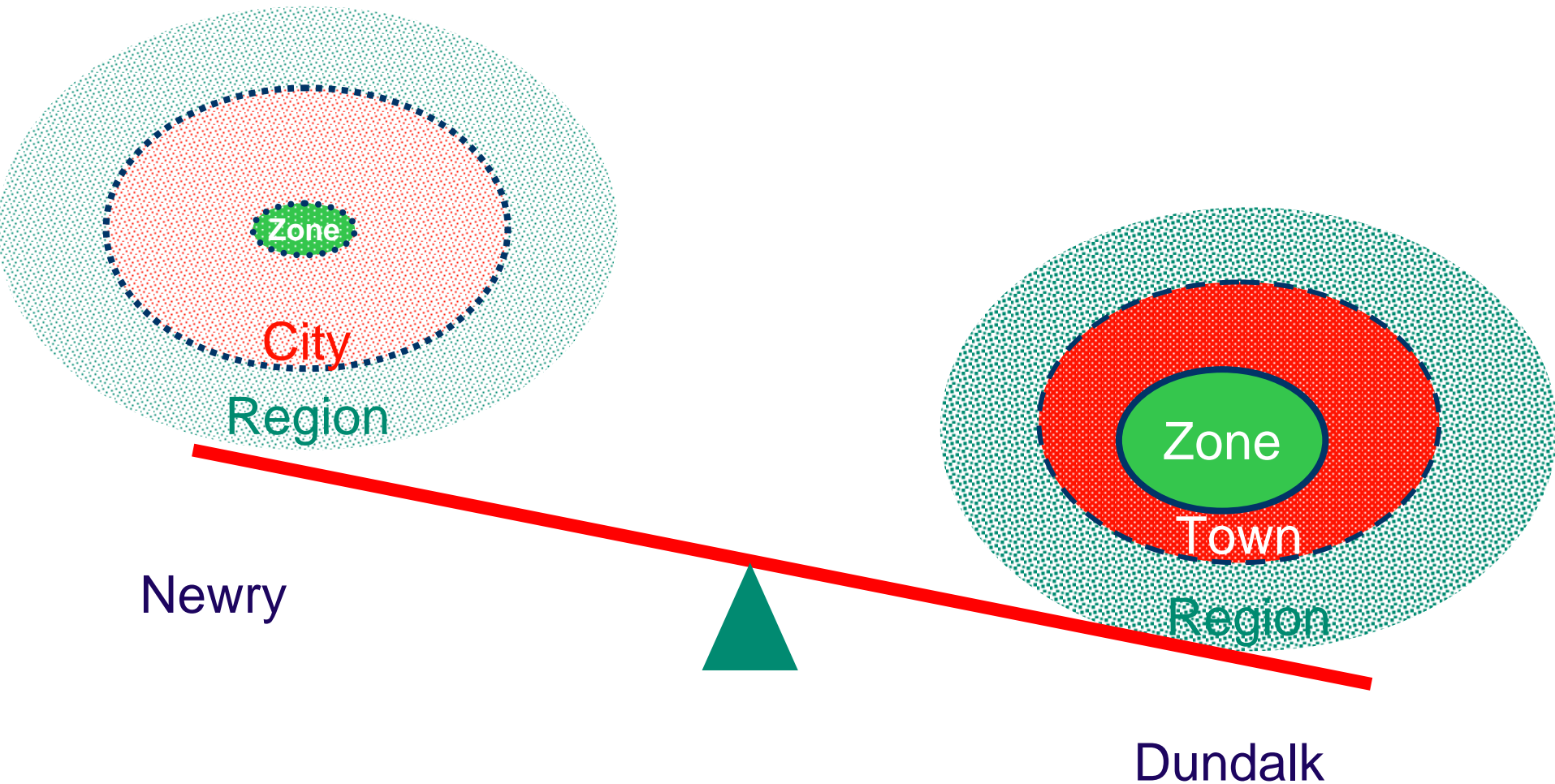


Newry

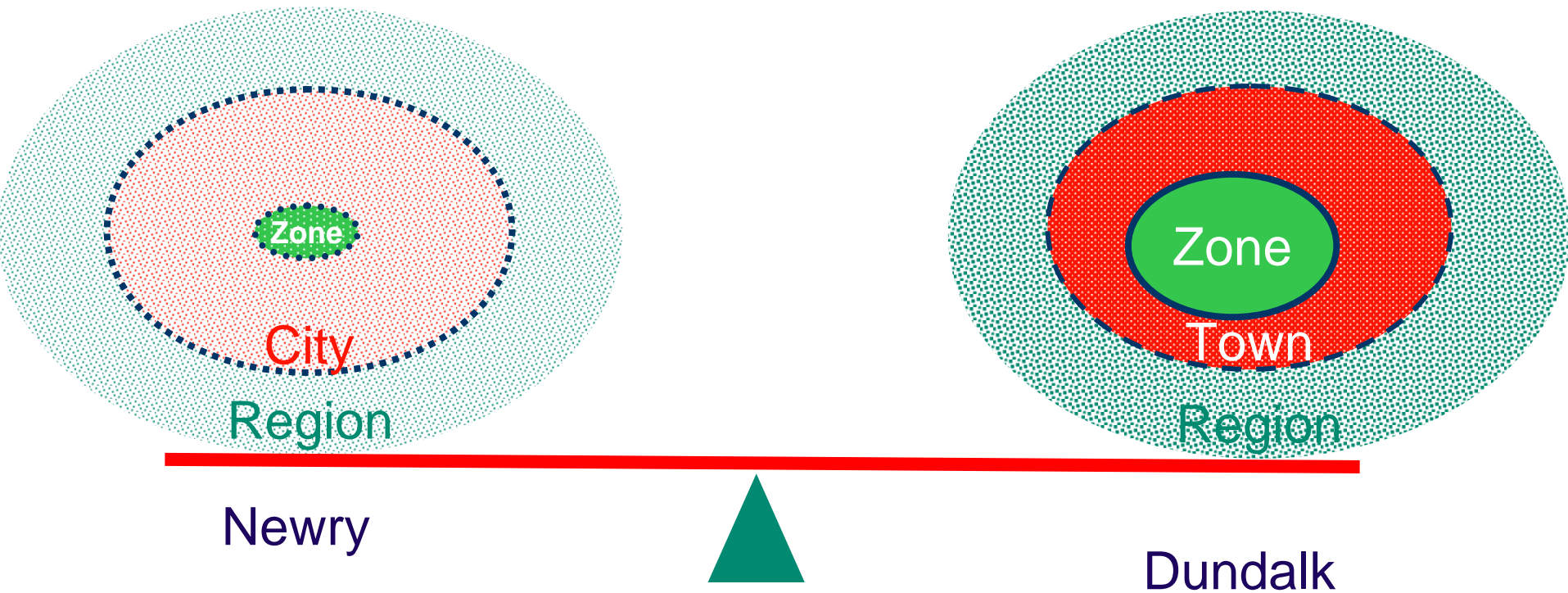


Dundalk

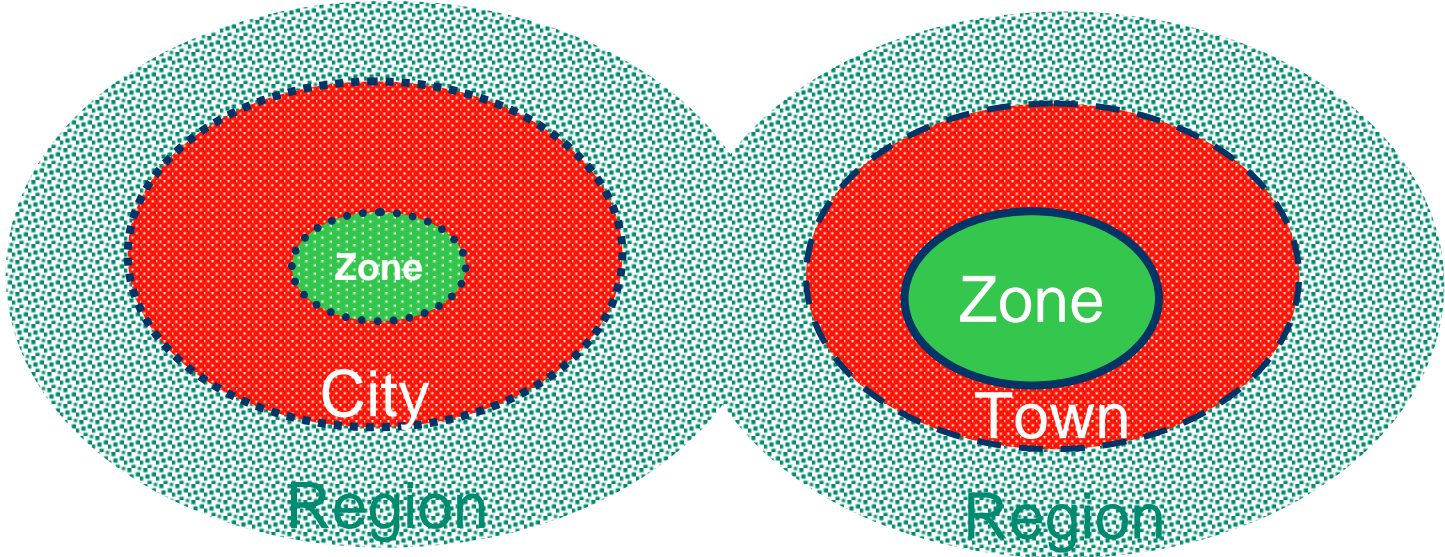
Current Status



Address the balance



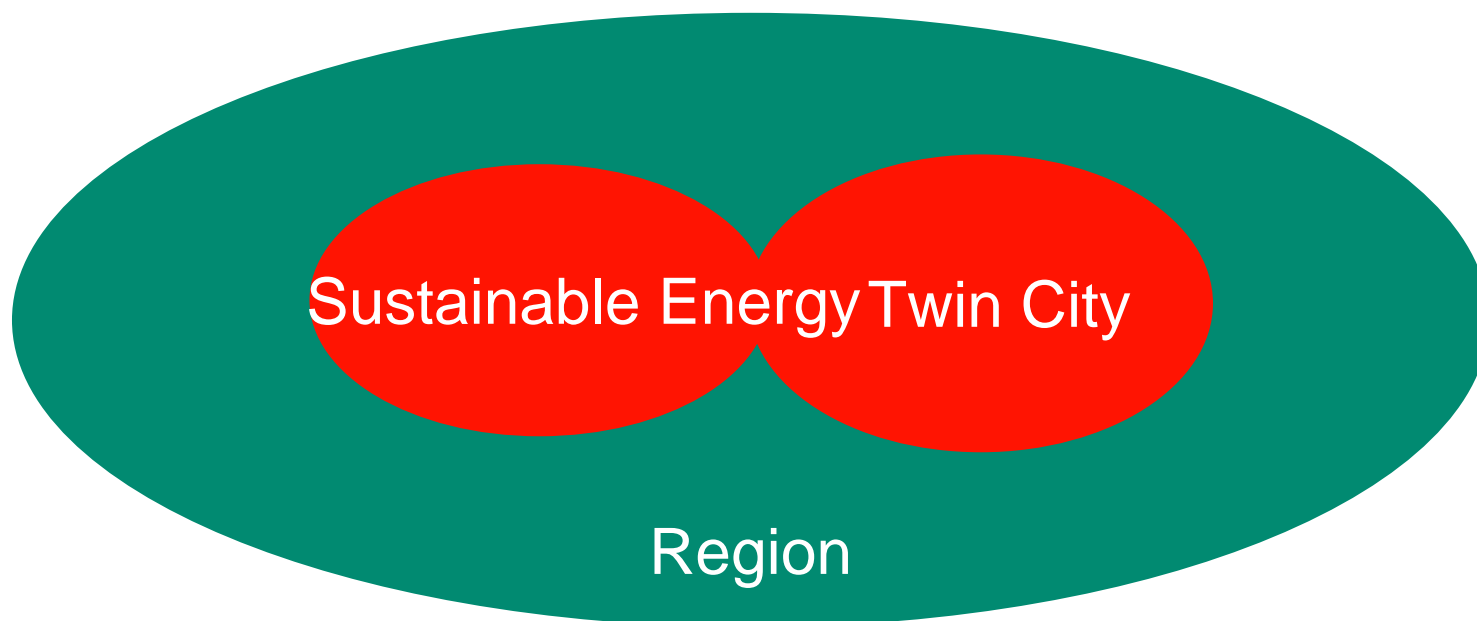
Develop together



Newry

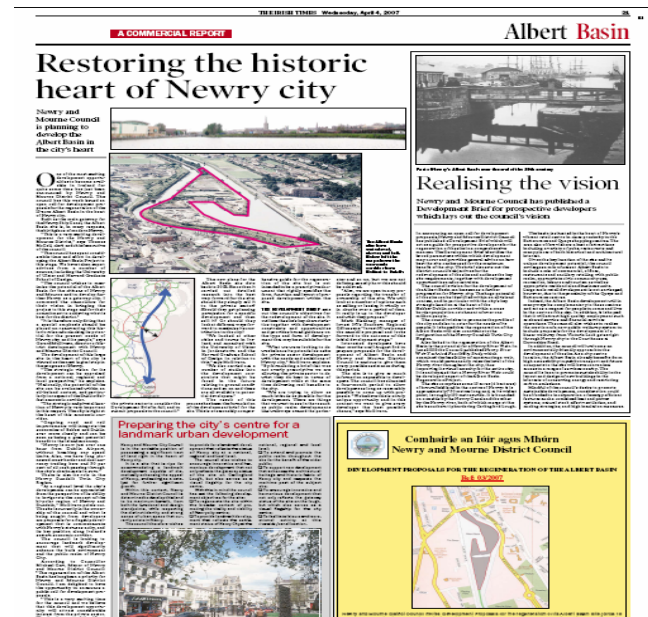
Dundalk

Newry Dundalk A 2020 Vision – Sustainable Energy Region



Proposed next stages for Newry

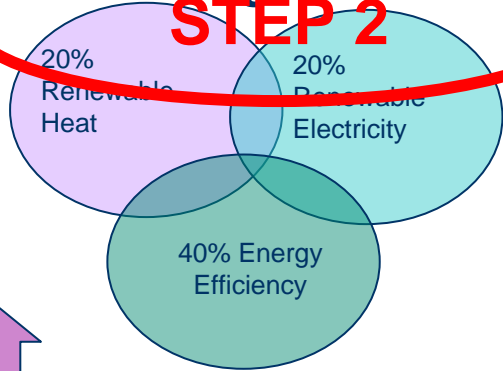
- Local Steering Committee – Initially Newry Greater Vision?
- Selection of Zone & Targets with key Stakeholders
- Join N&MDC in adoption of Dundalk 2020 Project framework.
- Identification of Action Group(s)
- Develop buy-in with Central Government and Agencies.
- Newry and Dundalk act as exemplars for both jurisdictions



Project Management Process Newry

Targets

STEP 2



Project Management

STEP 1



Management Process

STEP 3

Commitment

Policy

STEP 2

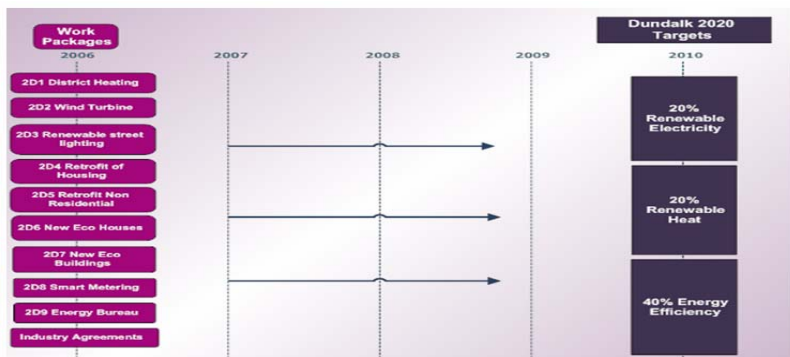
1. Plan

4. Review

2. Evaluation

3. Implementation

Project Plan



Newry Dundalk Sustainable Energy Links



- HOLISTIC
- Sustainable Region – *ECO Tourism*
- Potential for shared energy initiatives
 - Generation – Wind, Tidal, CHP
 - Sustainable Transport – Bus & Rail – CYCLING
 - Energy Storage
 - Fuel Production – Biofuels - Biomass
 - Significant research platform – Educational

The Proposal

To agree in principle to adopt the Sustainable Energy Community approach of the Dundalk 2020 project.

Demonstrate leadership for the future and tie in with North / South spatial strategies

Innovative cross border co-operation

Combined natural resource review

Whats it all about?

THE
INNOVATION
IS IN
THE
INTEGRATION

The potential prize – THE GUSSING AWARD!!

Link