



Powering **Up** Dublin

22 November 2022

Business Forum



Agenda:

- Welcome from Facilitator
- Round of Introductions
- Overview of the Forum
- Powering Up Dublin – the story so far
- Breakout Session – constraint mapping
- Questions, Wrap Up and AOB



Independent Facilitator

- Audry Deane
- Audry's role:
 - Facilitate meetings of the forum
 - Set meeting agenda with members
 - Meeting reporting
 - General meeting liaison

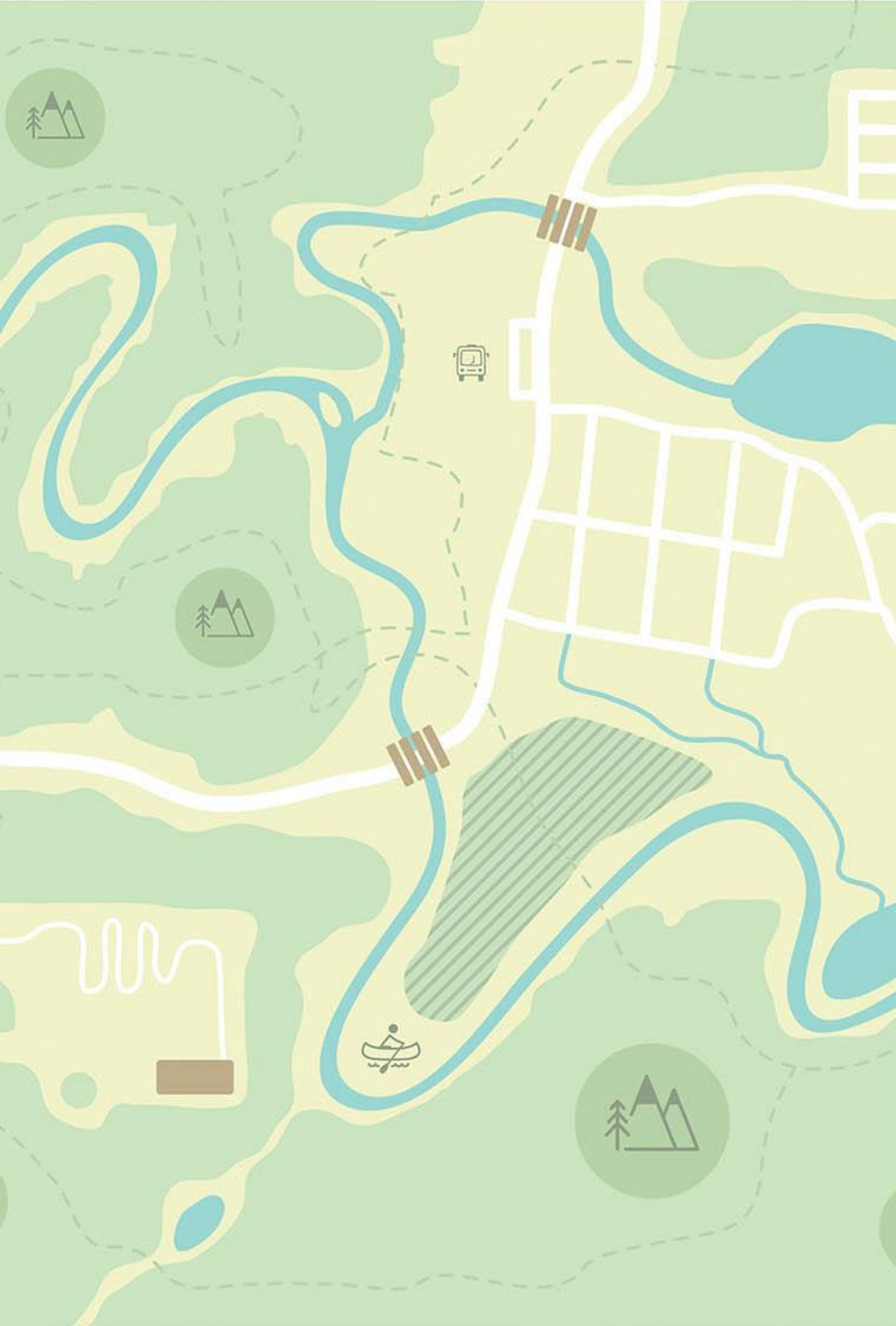
Overview of the forum

Sinead Dooley, Head of Public Engagement



Purpose of the Business Forum

- Represent the views of local businesses and facilitate a 'local voice'.
- Provide guidance and feedback at key stages of the project.
- Assist in resolution of local issues that arise during the project stage.
- Identify local sources of information that will assist the project team to minimise disruption throughout the city.
- Communicate information to a wider group of stakeholders.
- Explore opportunities creating added value in project delivery.



Initial Work Programme

- Help us map local constraints/hotspots that we should consider.
- Advise us on our approach to engagement and consultation.
- Explore consultation and engagement opportunities.
- Keep updated on the progress of the project.



Initial Membership

- Dublin Town
- Dublin Chamber of Commerce
- IBEC
- Dublin City Councillors
- Dun Laoghaire Rathdown County Councillors
- Restaurants Association
- Enterprise Ireland
- An Post
- Up to 10 SMEs.

Powering Up Dublin – the story so far

Jamie Moore and Roger Hole



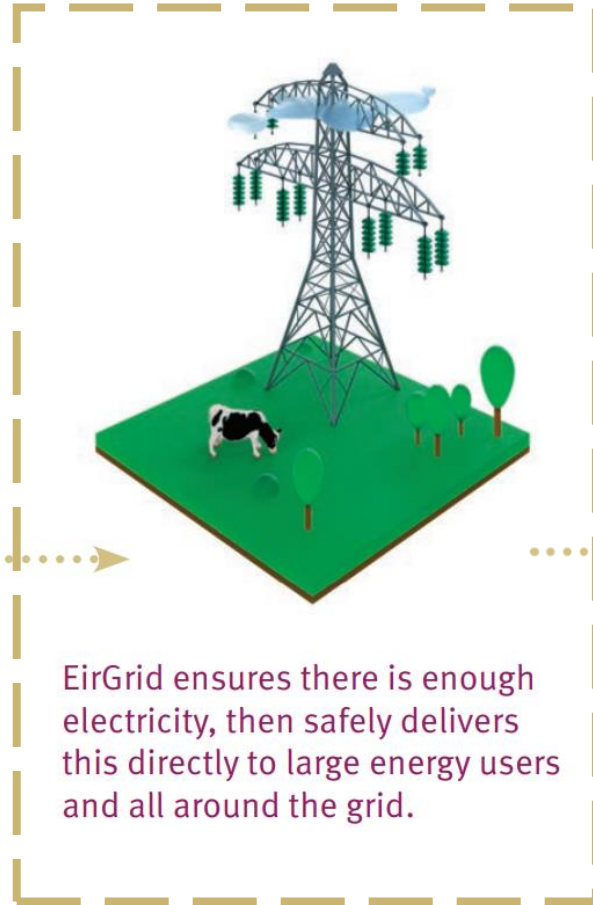
Who are EirGrid and what do we do?

- State owned operators of Ireland's electricity transmission grid.
- We send power from where it is generated to where it is needed.
- We operate the wholesale electricity market.
- We operate electricity interconnectors with neighbouring countries.
- We do not generate electricity.

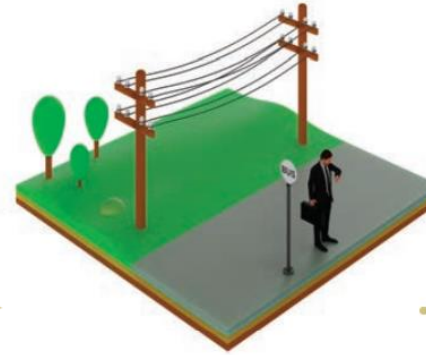
EirGrid's role in the electricity system



Generation companies create electricity and compete to supply it at the best price.



EirGrid ensures there is enough electricity, then safely delivers this directly to large energy users and all around the grid.



ESB Networks take electricity from the grid and send to everyone who needs it.



Consumers choose an electricity supplier, confident that they'll have a reliable and secure supply – now and in future.

What is happening in the Dublin area?

- Current electricity infrastructure is becoming less reliable.
- System security is under pressure.
- Demand for electricity is growing.
- Renewable energy projects are coming.

Where is demand coming from?

- Housing
- Transport electrification
- Heating
- Large energy users
- Distribution level (consumers)







Offshore Renewable Energy



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Congestion on the transmission grid in Dublin

Indicator	Risk of Overloading
	Marginal
	Small
	Moderate
	Heavy
	Severe
	Extreme

 Existing Substations



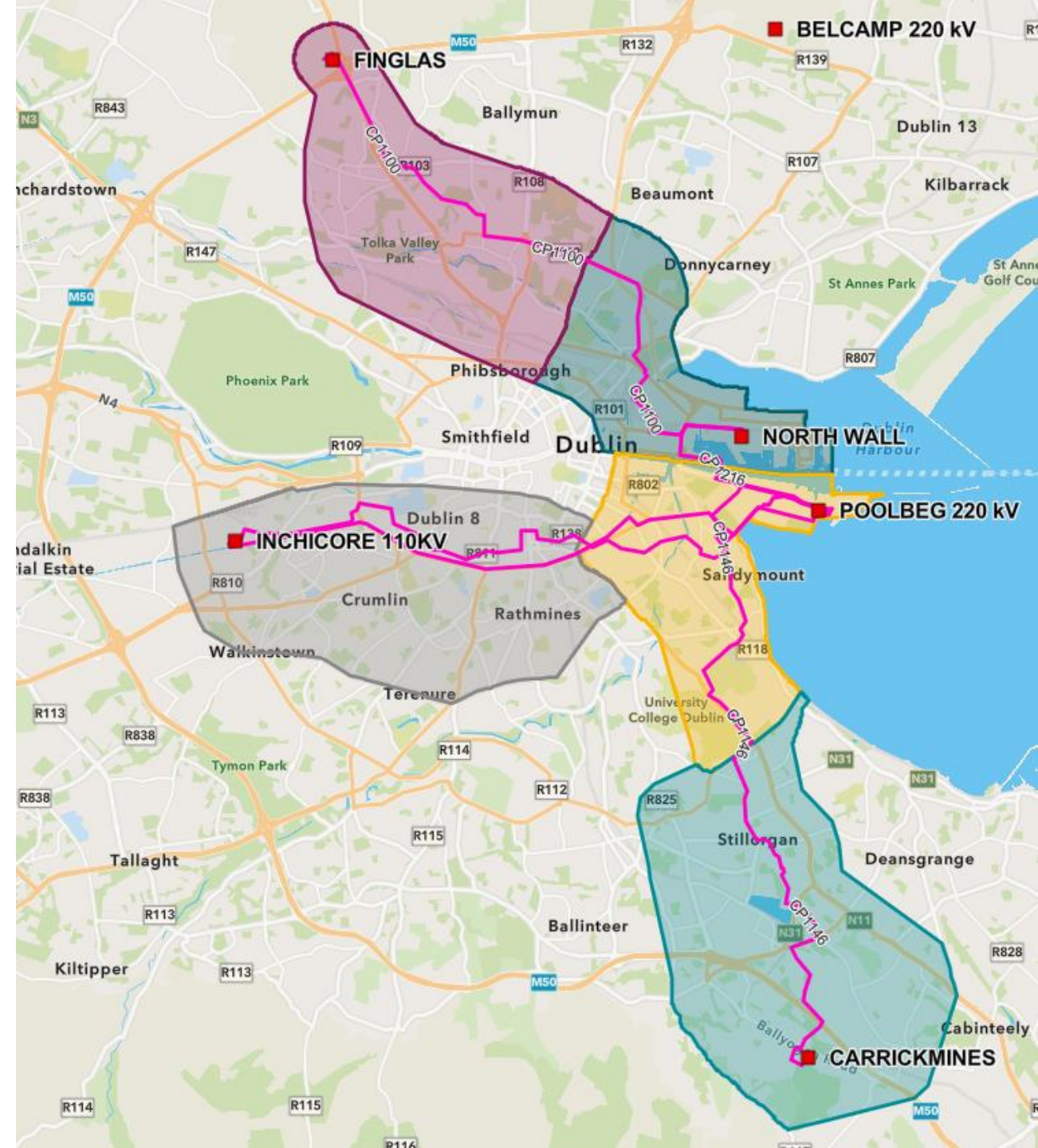


What is Powering Up Dublin?

- A programme of works to:
 - Install over 50km of cables across the city.
 - Upgrade existing substations.
 - Identify new cables routes and substations that may be required.

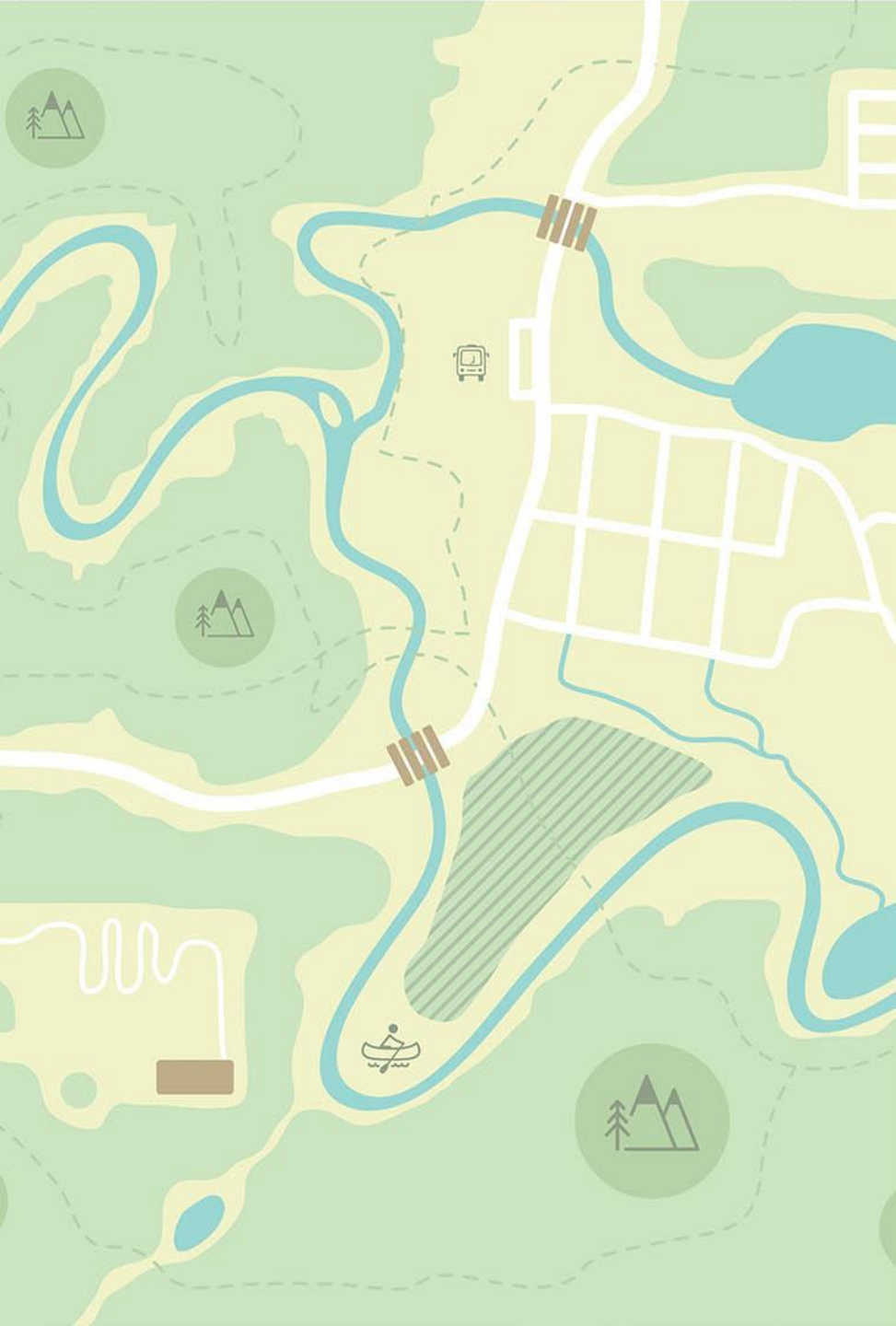
The study area

- Some substations require upgrading
- Existing High Voltage (HV) cables require replacement
- Cable replacement must be performed 'off-line' else significant disruption to energy transmission would occur
- Study areas are designed to cluster the area within which the cable runs are proposed





The challenge on the ground



Identifying potential routes

It starts with constraints.....

- Other services in the road such as water, gas and drainage
- Potential impact on the environment including European and national protected areas for biodiversity, invasive and protected services and other important biodiversity areas (including undesignated habitats)
- Areas of high amenity and ongoing works
- Moratoriums on road openings

This provides route corridors.....

Developing route options

Our routing principles for this project then consider:

- Sensitive natural and built heritage locations
- Avoidance of going off-road, through private land and through agricultural land
- The use of national, regional and local roads
- The impact on communities
- The performance of the cable
- Deliverability of the routes
- Consideration is given to City and County Development Plans and Local Area Plans and in addition to this, feedback from local communities is at the heart of our process.

Site Investigations



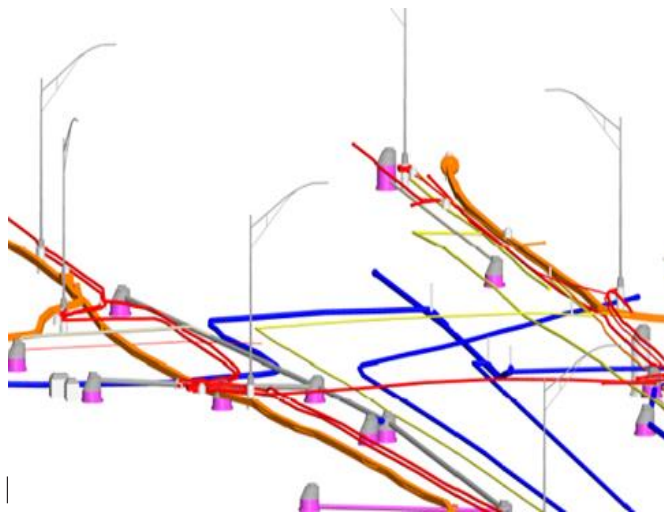
Utilities records



Ground Penetrating Radar



CAT and Genny Scanning



Walkdown and consolidation - 3D



Slit Trenching





How do we install underground cables?

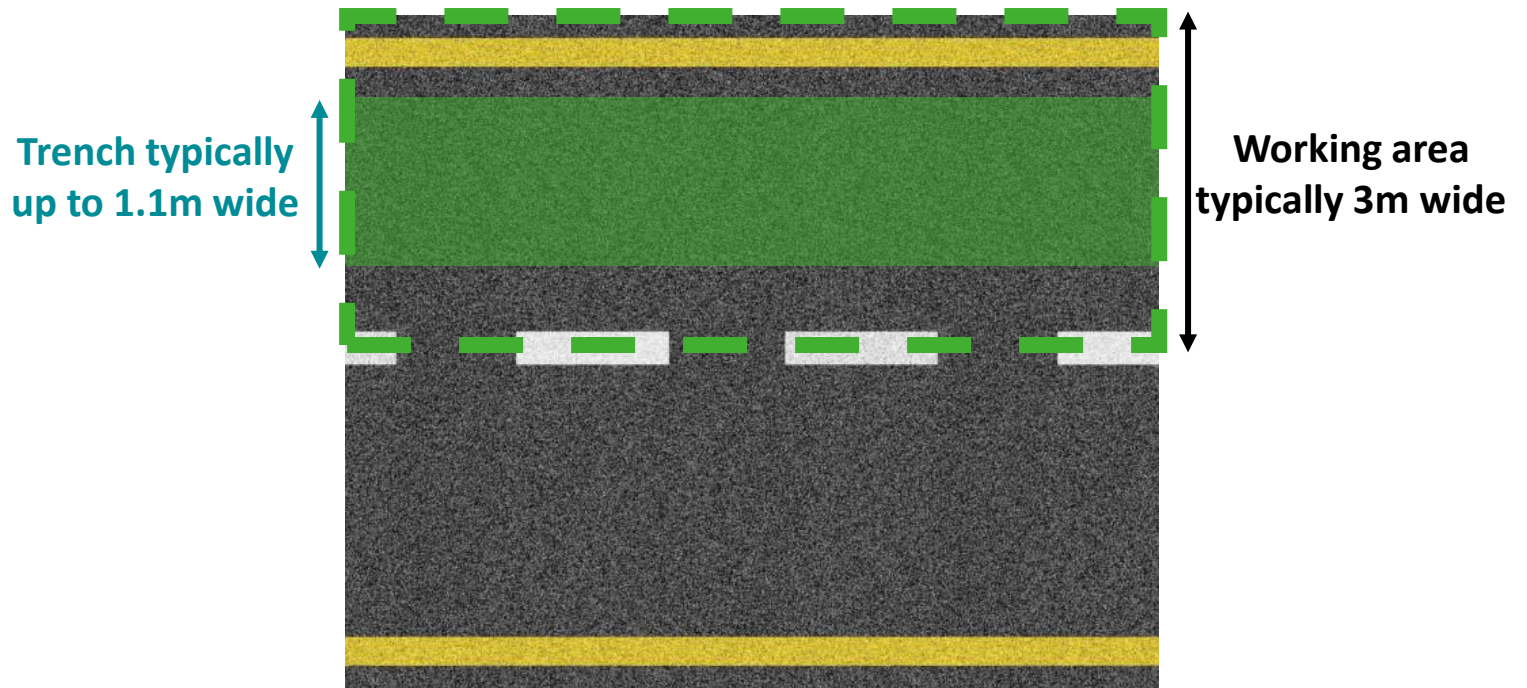
- [Installation of Underground Cables – EirGrid Group - YouTube](#)

Typical Trefoil trench



Typical Trefoil trench

Indicative cable trench



Trench typically up to 1.1m wide

Working area typically 3m wide

Joint Bay



What is advanced ducting

Is the opportunity to proactively and collaboratively advance ducting works, through three approaches:

1. **Advanced Ducting** – in collaboration with 3rd parties' projects/works.
2. **Strategic Ducting** – Sections identified within the routes that can be fast-tracked.
3. **Opportunistic Ducting** – as a part of SI works.

Example: Installation of ducts in the Royal Canal Greenway



What is the timeline?

- 2022 – 2024:
 - Feasibility and concept design
 - Planning
 - Advanced Ducting
- 2024 – 2030:
 - Advanced Ducting
 - Construction
 - Energisation
 - Benefit sharing

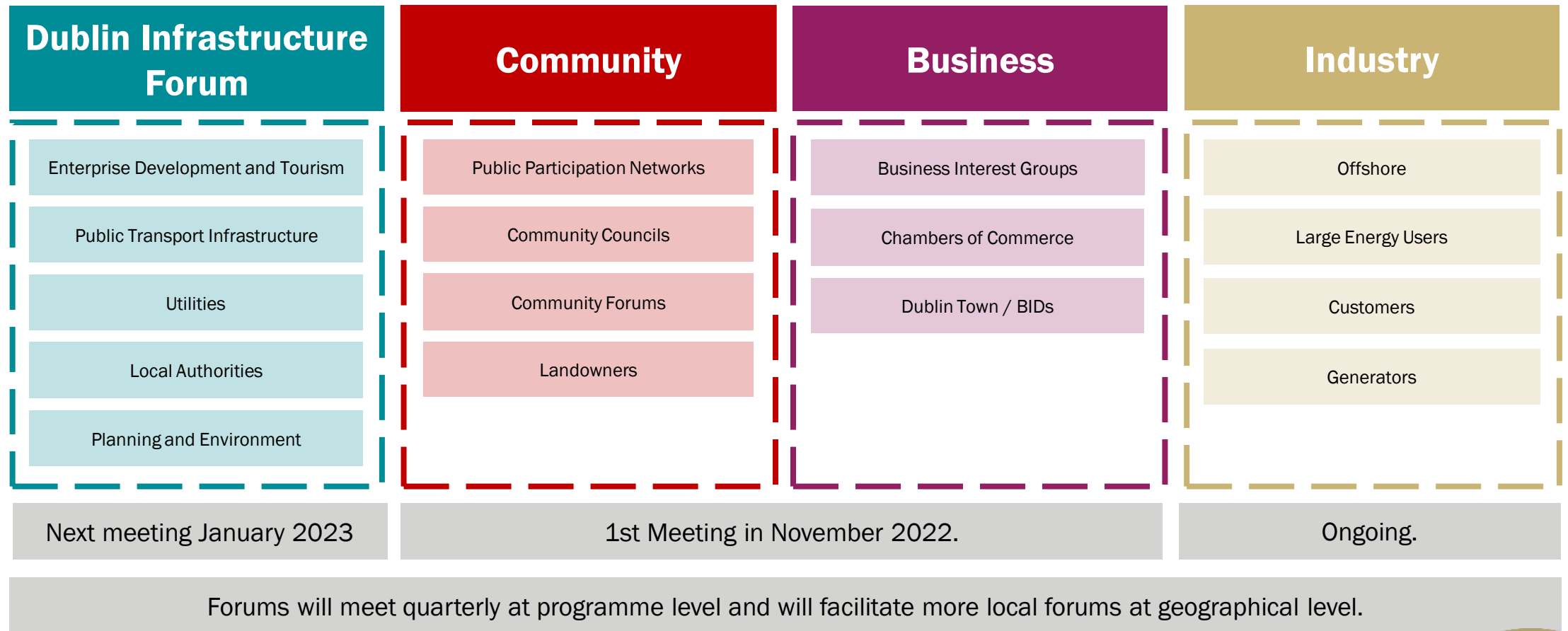
Consultation and engagement



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Consultation and Engagement Forums



Formal consultation and engagement programme

- Anticipated in Q1 2023.
- Engaging and consulting on routes.
 - Draft routes will be available.
 - Online consultation portal.
 - In-person engagement events.
 - Communications programme (leaflet, advertising, earned media, etc.).
 - Community liaison clinics.
- *Ongoing stakeholder engagement and communication continues regardless of formal period.*

Proposed Future Business Forum Meetings

- **Q1 2023:** Briefing on routes going live for consultation.
- **April 2023:** Workshop mid-consultation on the route options.
- **June/July 2023:** Overview of feedback received from consultation and status of route options.
- **September/October 2023:** General project update and routes being progressed.



Questions?



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