

Introducing 5th Generation District Heating and Cooling (5GDHC) in your city: a serious game for decision-makers

Workshop description

- An interactive **role-play game with hypothetical storyline**;
- A **simulated meeting** organized by a district heating company*;
- **Key stakeholders*** are invited to the meeting to **discuss** how to switch to carbon-neutral heating (5GDHC) in buildings in Glasgow city*;



**all stakeholders' roles and places are simulated*

Storyline of the game: **Introducing 5GDHC in Glasgow city**

The Scottish Government's aims to reduce greenhouse gas (GHG emissions) by 75% by 2030 and to achieve net zero carbon emissions by 2045.

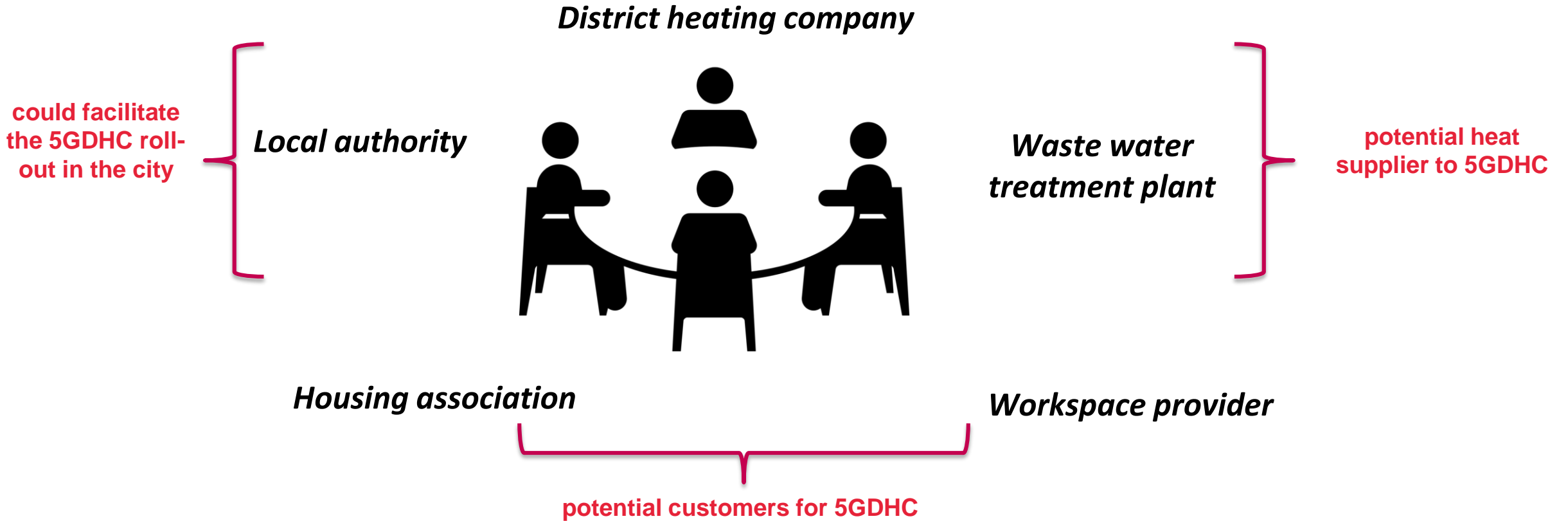
To achieve these ambitious decarbonisation targets, **the Glasgow city hall (local authority)** proposed to **district heating company EnNet** to initiate a meeting to discuss how to switch to carbon-neutral heating and cooling in buildings by implementing fifth generation district heating and cooling (5GDHC).

The district heating (DH) company EnNet, who is the largest DH operator in Scotland, has invited all relevant stakeholders to this meeting.

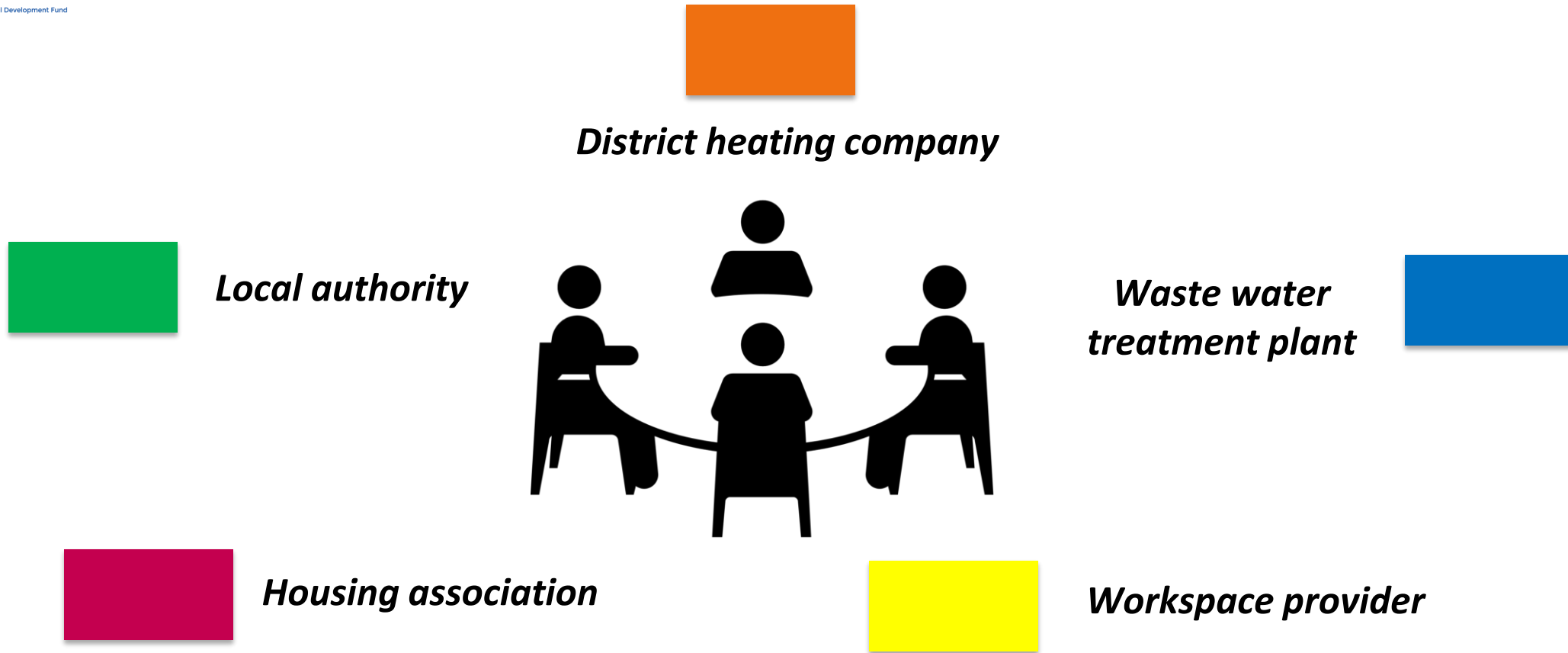
EnNet has already successfully demonstrated the 5GDHC principles in various pilot projects. Now they are looking to start rolling out this technology on a large scale, starting in Glasgow city.

During this meeting participants decide where to establish and which stakeholders to connect to the first 5GDHC cluster in the city.

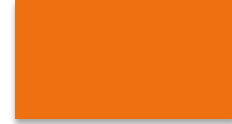
Roles in the game



Colour code in the game



Colour code



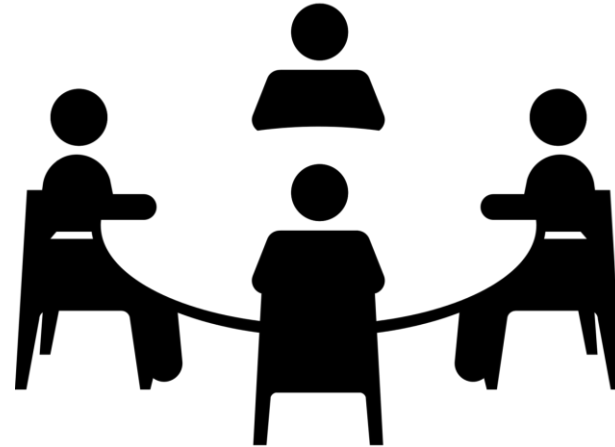
Moderator: **1 (name)**

District heating company

Moderator: **2**



Local authority



Moderator: **5**



*Waste water
treatment plant*

Moderator: **3**



Housing association

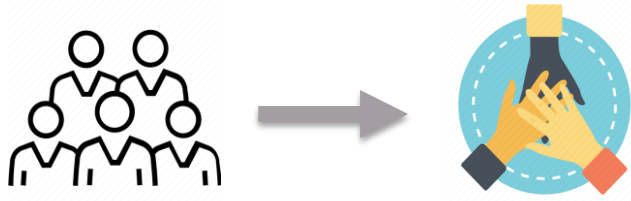
Moderator: **4**



Workspace provider

Structure of the workshop:

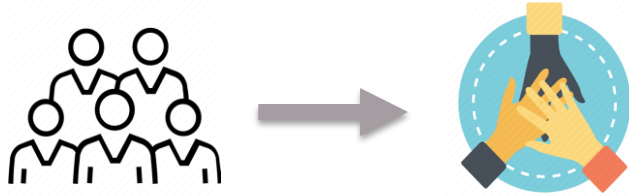
1



Participants divided in
teams (colour code)

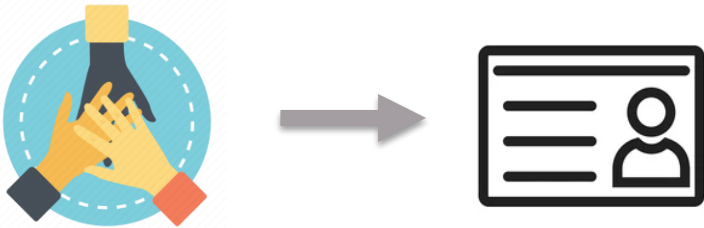
Structure of the workshop:

①



Participants divided in
teams (colour code)

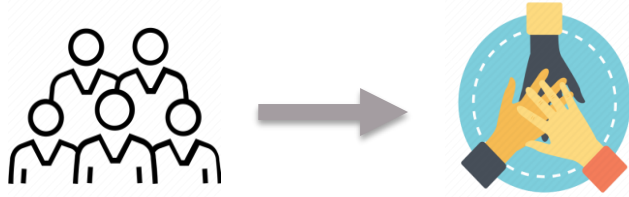
②



Each team receives a role-card
5 min to read the card

Structure of the workshop:

1



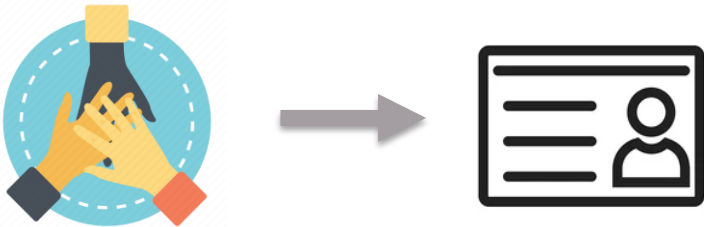
Participants divided in teams (colour code)

3



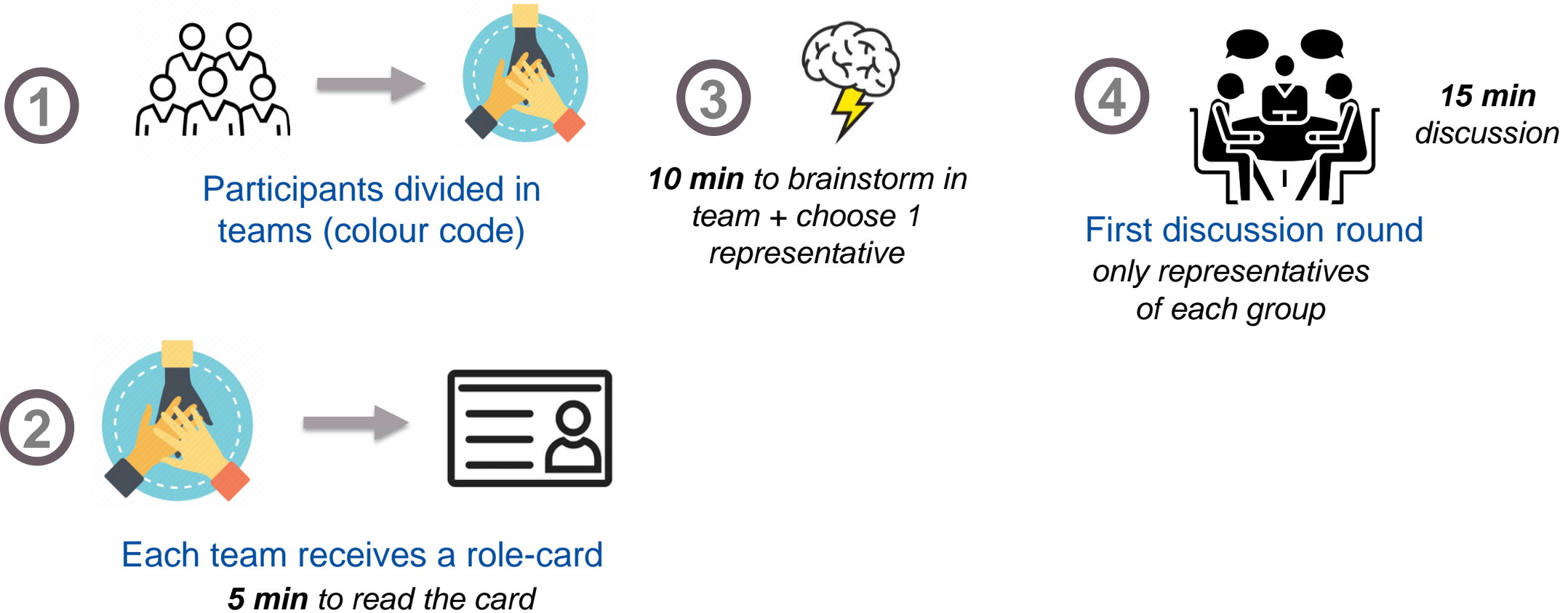
10 min to brainstorm in team + choose 1 representative

2

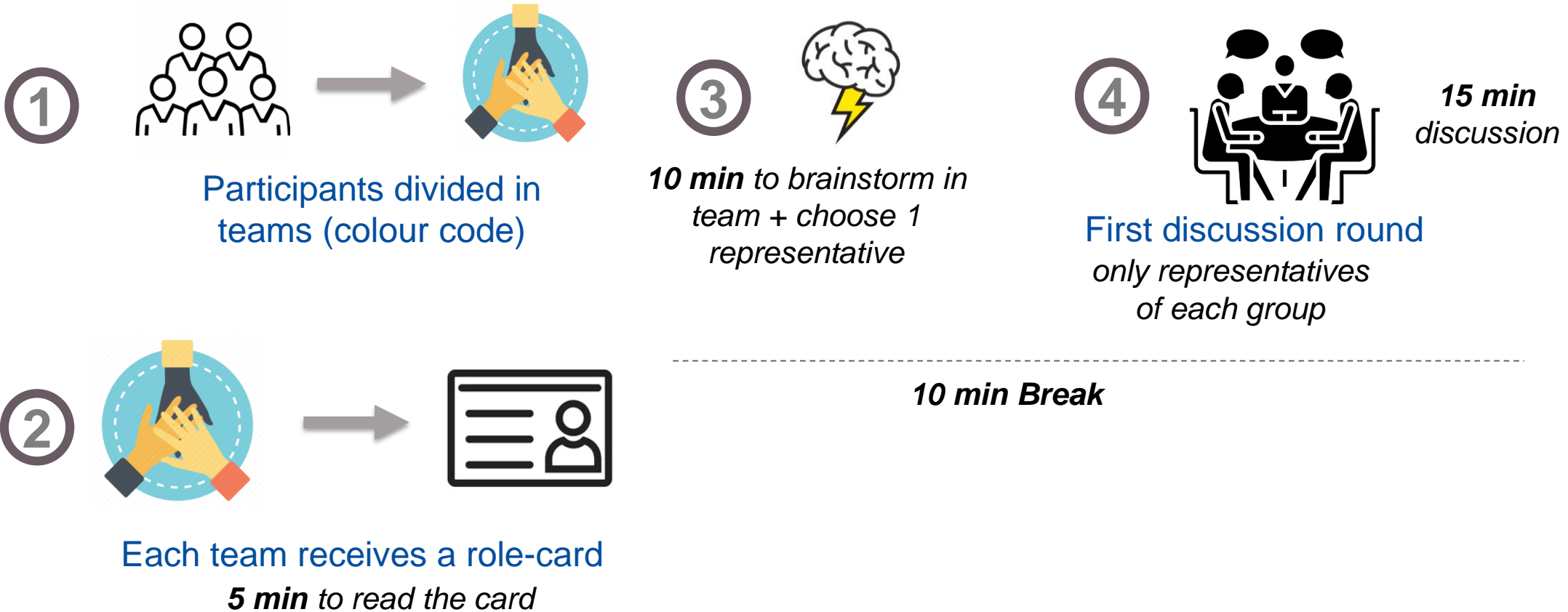


Each team receives a role-card
5 min to read the card

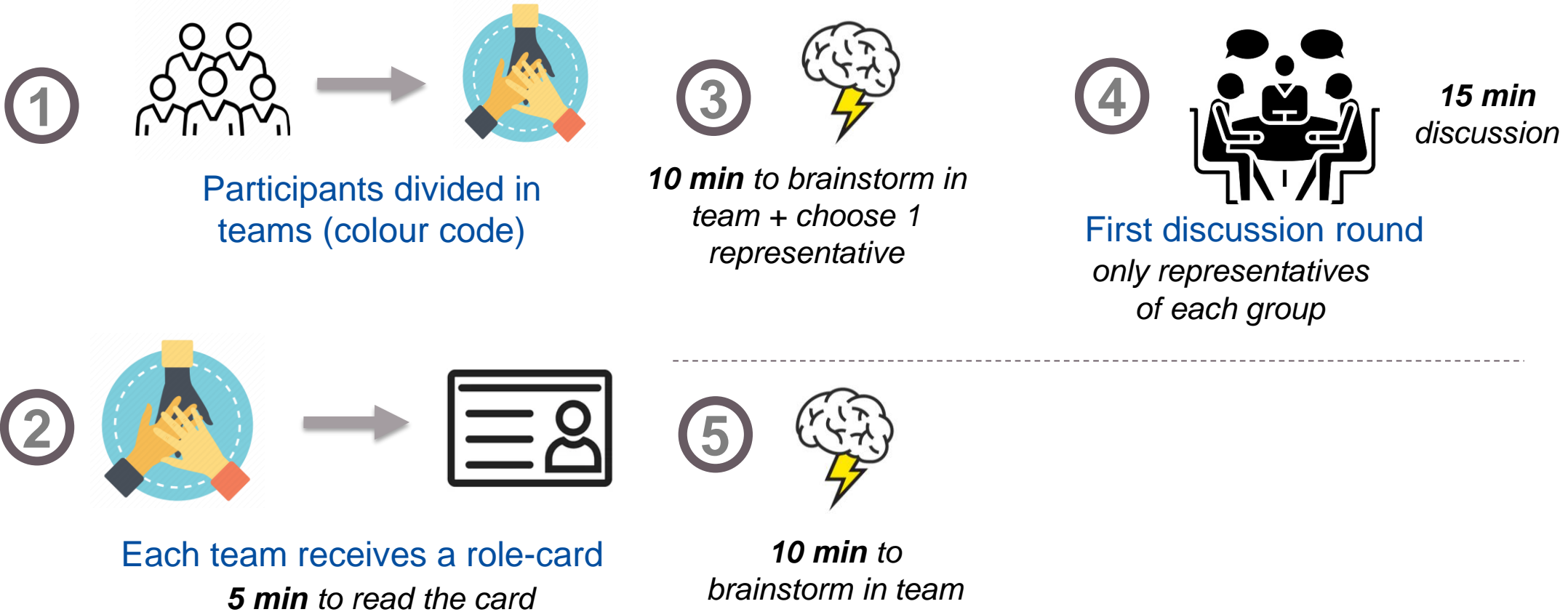
Structure of the workshop:



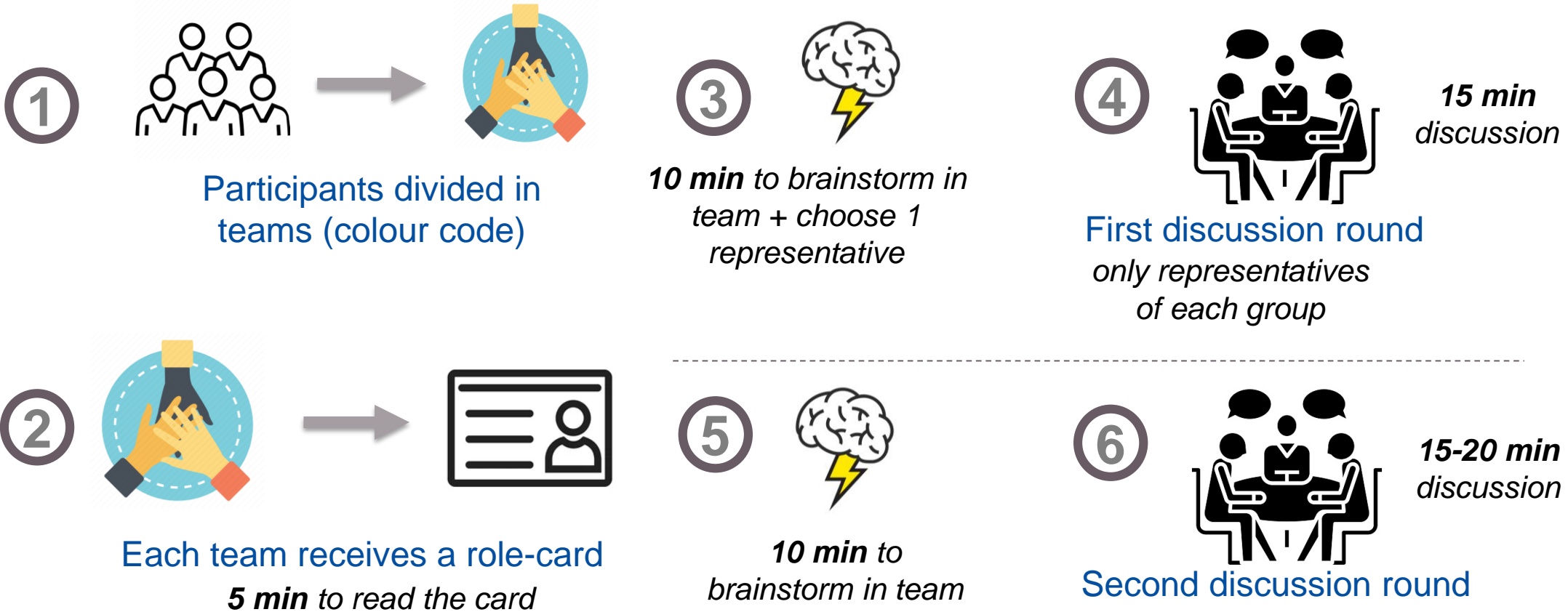
Structure of the workshop:



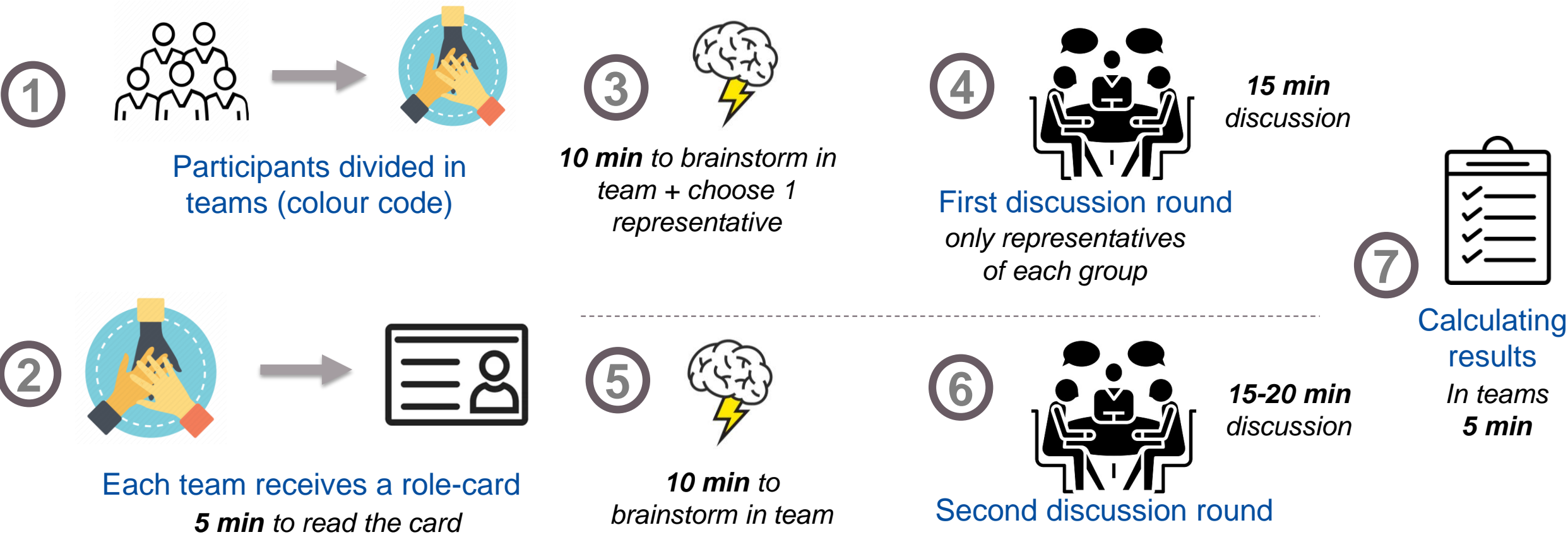
Structure of the workshop:



Structure of the workshop:



Structure of the workshop:



What to expect in the first discussion round?

1

District heating company starts the dialogue in the first discussion round



First discussion round

Each representative will have max 5 min to speak to other stakeholder

4

2

Each team chooses one representative to speak

3

Moderator will invite the team representative to speak

What to expect in the second discussion round?

1

Each team chooses one representative to speak



Second discussion round

At the end of the round moderator will invite each team representative to say the last word

4

2

Moderator will invite each representative to talk

3

Each representative will have max 5 min to speak to other stakeholder

Features of the game:

During the brainstorming in your team you need to identify:

- **Barriers** for you to implement 5GDHC;
- **Opportunities/solutions** to those barriers; ← for each identified opportunity/solution you get **1 point**.

TEAM WINNER



The best role performance* team will get **5 points** from moderators.

*Criteria for assessment:

- Active participation in all discussion rounds;
- Creative in role performance;
- Collaboration with other stakeholders;

The team with the highest score points at the end of the game wins!

Tools of the game



Role-card:

- Description of the character;
- Goals for the meeting;
- Possible strategies;



Map:

- Location of the buildings in the city;



Score card:

- Card to mark achieved goals and points;



Note file + template:

- Share notes with team during the brainstorming;



Additional info:

- Additional info about 5GDHC technology;



Expert support:

- Ask expert in case of any doubt;

**It is a simulation role-play game.
If any information is not given in
the role-card, you can improvise**

Q & A

Interreg North-West Europe D2Grids

European Regional Development Fund

Thank you!

@D2Grids #5GDHC