Methane leakage  
in the natural gas distribution networks
Losses in the distribution network

Commercial losses

Technical losses

- Methane leakage
- Difference in measurement
- Measurement errors
- Imbalances
- Technological consumption by DSOs
Tier 1, 2, 3 approaches

\[ \text{Emissions} = \sum (\text{Activity factor} \times \text{Emission factor}) \]

**Activity factor** per type of equipment (distribution pipelines, service pipelines, stations)

**Emission factor** – depends on materials, age, maintenance….
To improve an image of gas industry in the World of missions' reductions and decarbonisation

Source: Elaborated by the authors based on European Environment Agency GHG report / Methane leakage training November 2019, ECS, Vienna
Better assessment of the losses:

- Better data before entering into solving losses
- Better data before entering into discussions with Regulators
Thank you for your attention!

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