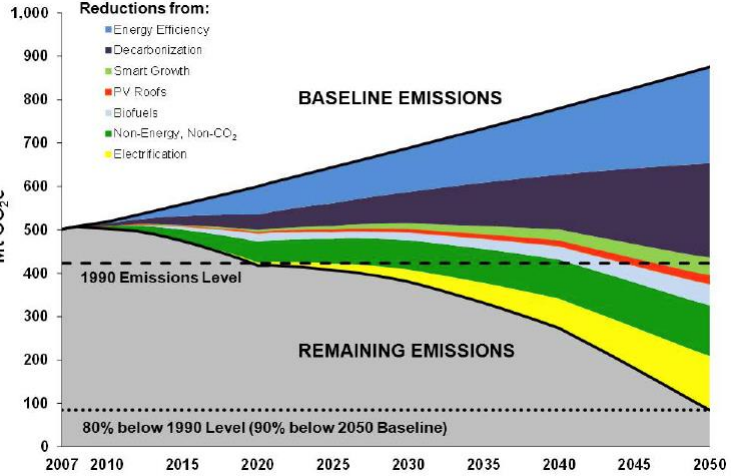


Towards Zero Logistics Emissions

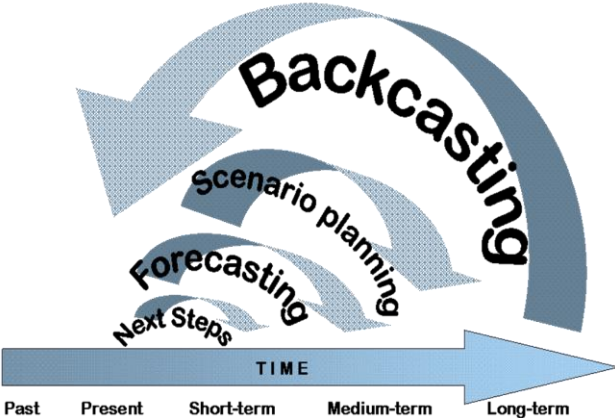
Breakout sessions instructions

Session aims and approach

- Aim: to identify main steps towards zero emissions logistics with a focus on decarbonization
- Taking 1 out of 5 perspectives
 - Reduce transport intensity/restructure supply chains
 - Optimise the use of transport modes
 - Increase transport asset utilisation
 - Improve energy efficiency of transport
 - Switch to low carbon energy
- Approach: Backcasting
 1. Set interim objectives and milestones to achieve 2050 objective to scale efforts
 2. Trace back to R&D needs
 3. Check consistency

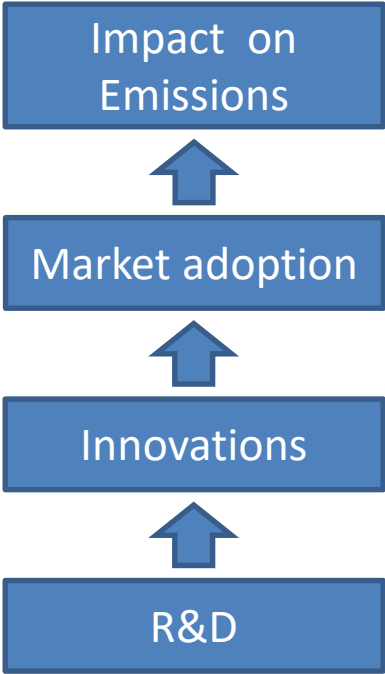


Berkeley Lab News Center - Lawrence Berkeley National Laboratory - <http://newscenter.lbl.gov/2011/11/24/ca-emissions-2050> Accessed 1-3-2018



Source: Outhwaite A. 2009. Backcasting. [online] Available at: <https://wearearising.org/2009/01/13/backcasting/> [Accessed 10 Nov. 2017]

Roadmapping



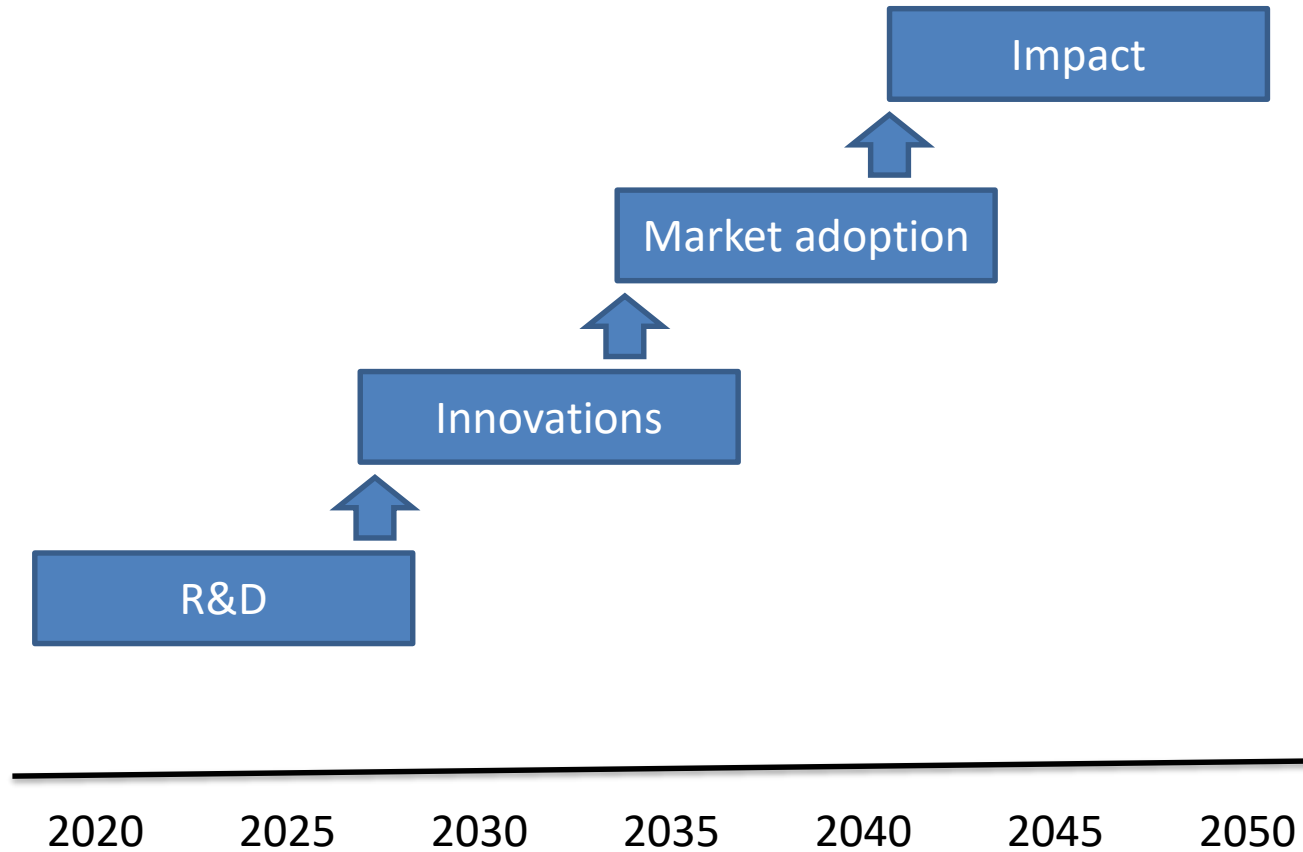
Final and total impact materializes in smaller steps and interim targets and paths to contribute to “Zero Emissions” (i.e. Neutral CO2 city logistics by 2030)

Widespread implementation and use. What is needed?
Under which conditions this will happen?

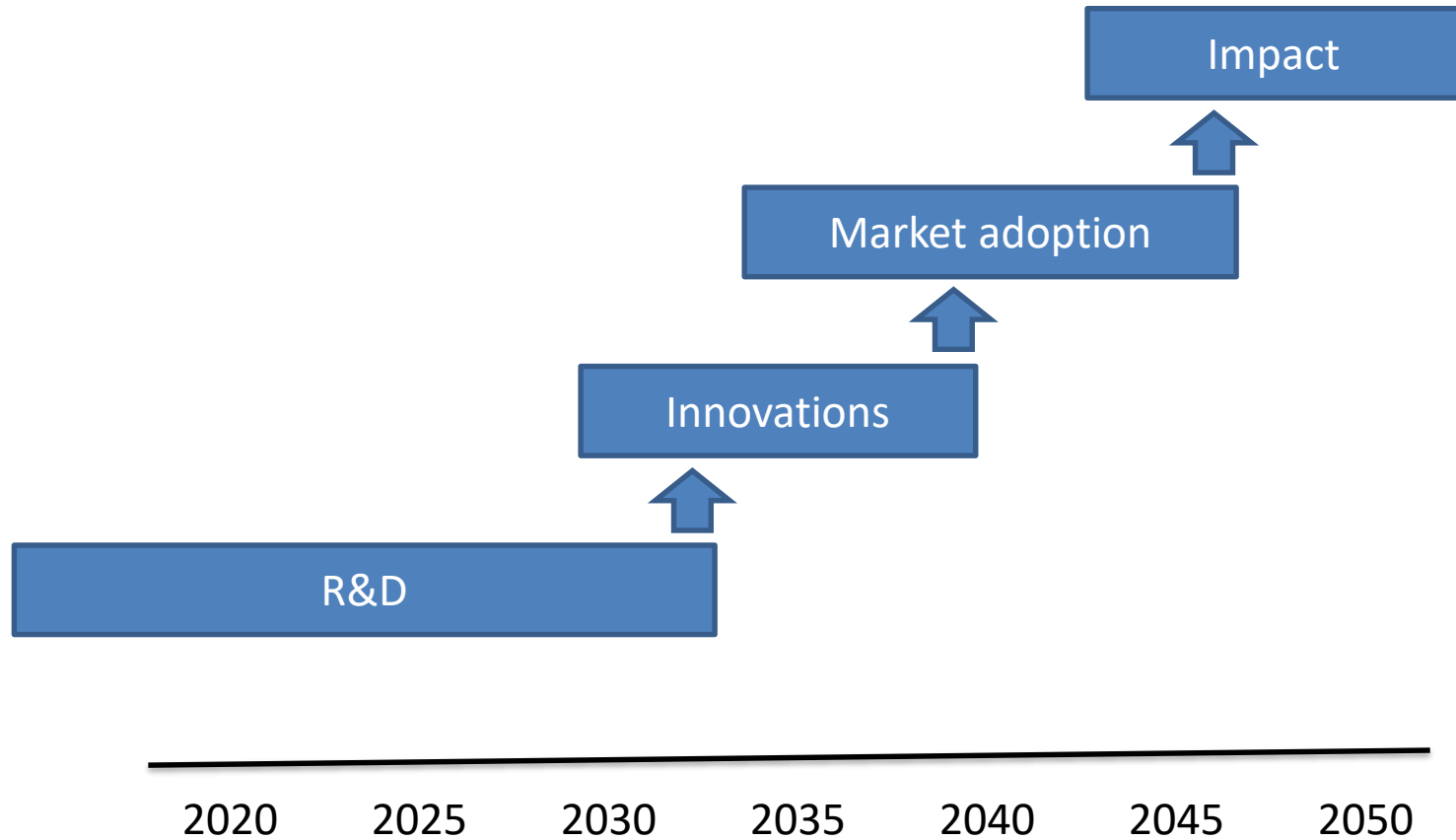
Products, Services, Policies deployed

R&D needs & programs

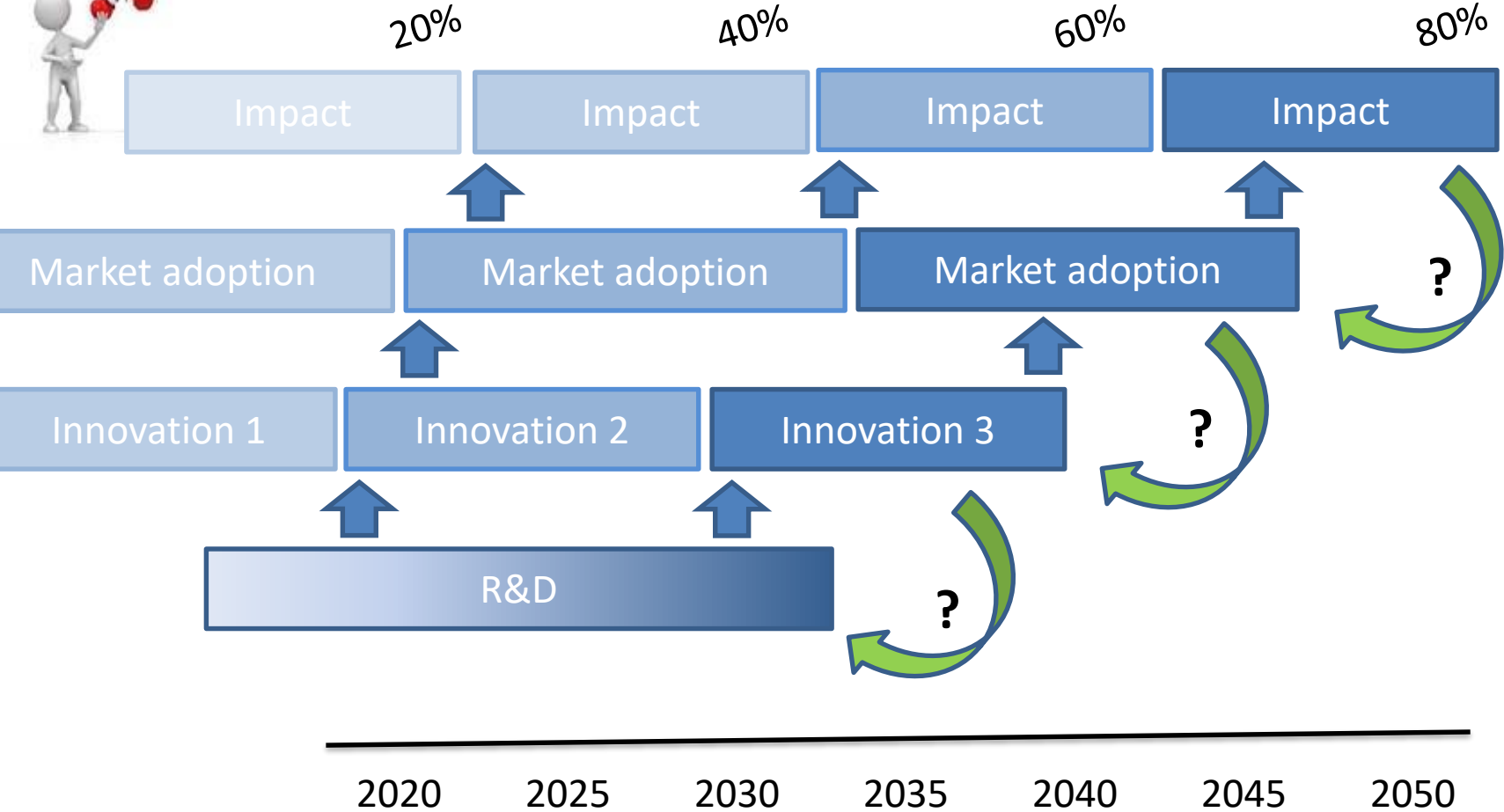
Roadmapping



Roadmapping



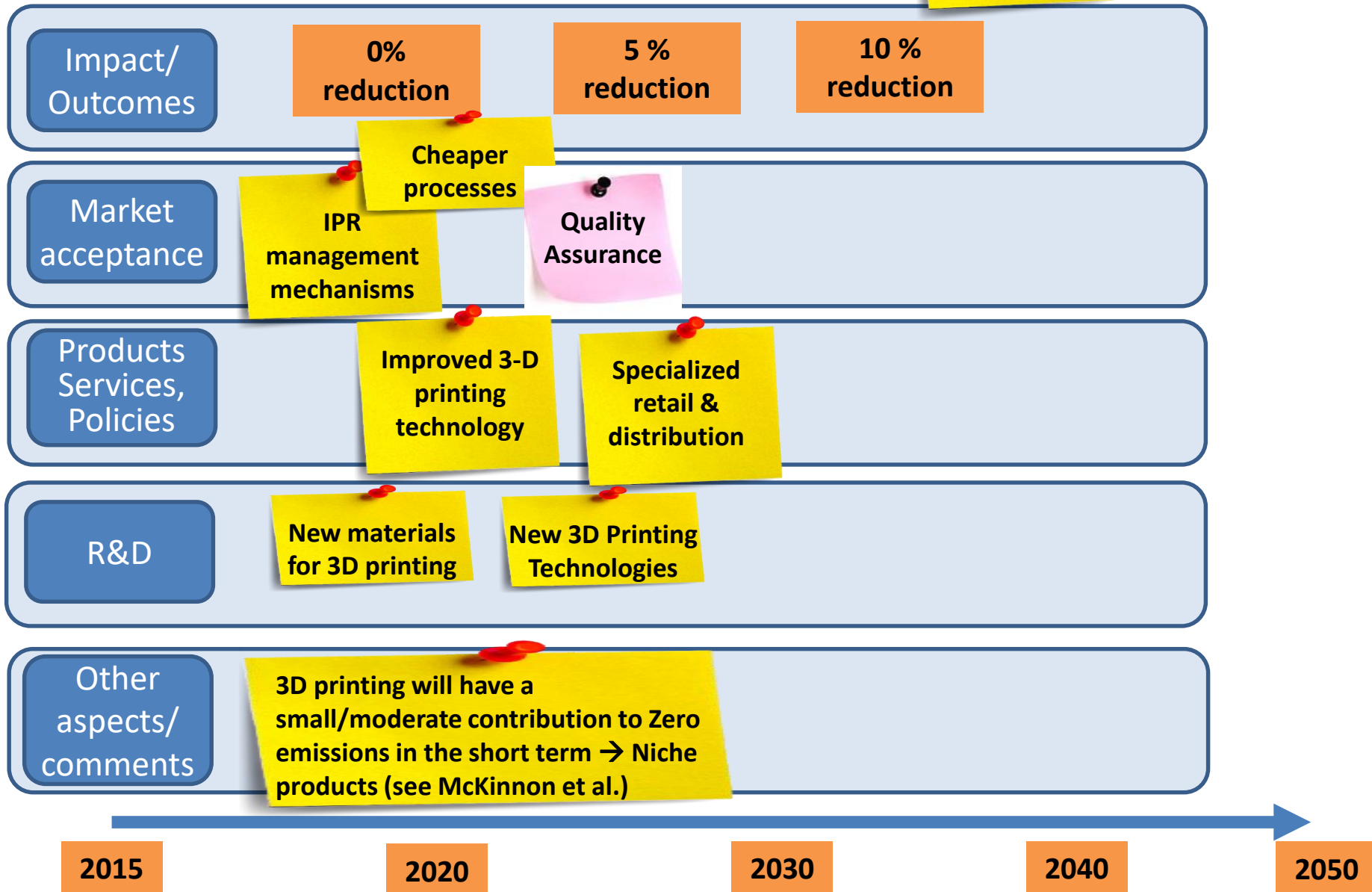
Roadmapping



Template and example:

Reduce transport intensity/restructure supply chains

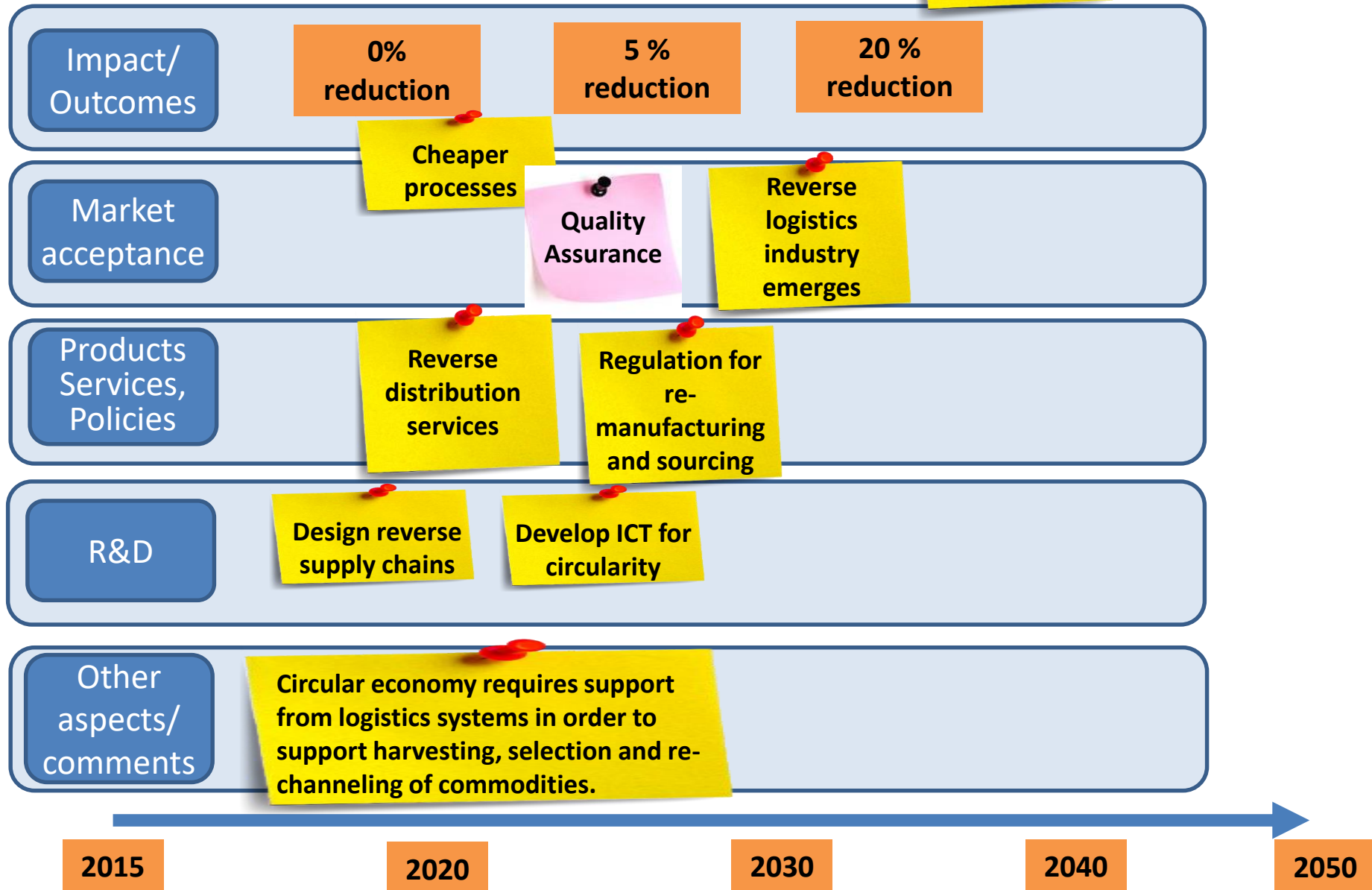
Dematerialization and 3D printing



Template and example:

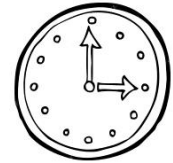
Reduce transport intensity/restructure supply chains

Reverse
Logistics for
Circular
Economy

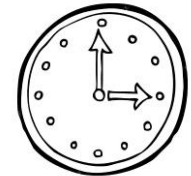


Time Split

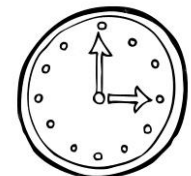
- Each Participant thinks on **specific output/impact** to be achieved within the scope of the session and a suitable time frame... based on that, proposes actions for market acceptance, which products, services and policies may support that development and which R&D is needed (*Post-it provided*)
- Participants start sharing their thoughts and grouping ideas. For the 2nd and following participant (s) sharing the thoughts, the different ideas may be grouped if possible so some consensus is built... but still ***no evaluation or selection of ideas***
- Review of backcasting of the different paths identified, what else is missing, what is not part of the consensus, which paths may have higher contribution and which aspects may be more critical?



5-10 minutes



40-50 minutes



30-50 minutes

Breakout sessions

| | |
|---|--------------------|
| Amphitheater Side A - Optimise the Use of Transport Mode | Eszter Toth-Weedon |
| Amphitheater Side B - Optimise the Use of Transport Mode | Lori Tavasszy |
| Room M106-107 Table A: Transport energy efficiency | Sophie Punte |
| Room M106-107 Table B: Low carbon energy tech. | Hans Quak |
| Room M106-107 Table C: Low carbon energy tech. | Fernando Liesa |
| Room M16 - Increase Transport Asset Utilization | Alain Baeyens |
| Room M17 - Increase Transport Asset Utilization | Dirk 't Hooft |
| Room M18 - Reduce Transport Intensity/Restructure Supply Chains | Alan McKinnon |