

# Momentum for Electric Mobility

## Dynamics of multi-level governance

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# Last Tuesday



60km's on Dutch roads:

2x Model S

2x Leaf

1x iMiev

3x Ampera

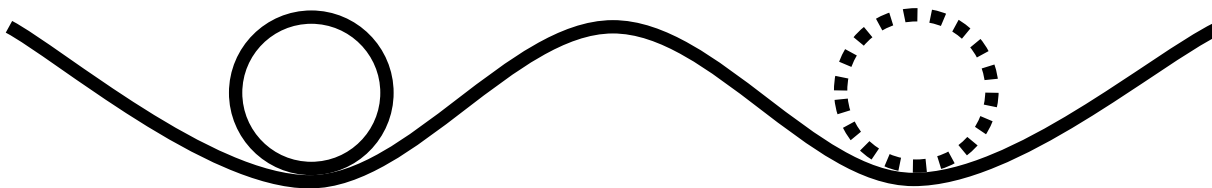
2x Outlander PHEV

How come?

# Momentum for E-Mobility e-mobility NSR

Momentum = Mass x Speed (with a direction)  
actors x efforts

Momentum is generated  
by whom and how?  
in which direction?



# Momentum in NL



Can only be understood as a result of multilevel governance

Transnational  
National  
Regional  
Municipal

Interaction between levels  
Competition among nations and cities

# Multi-level dynamics



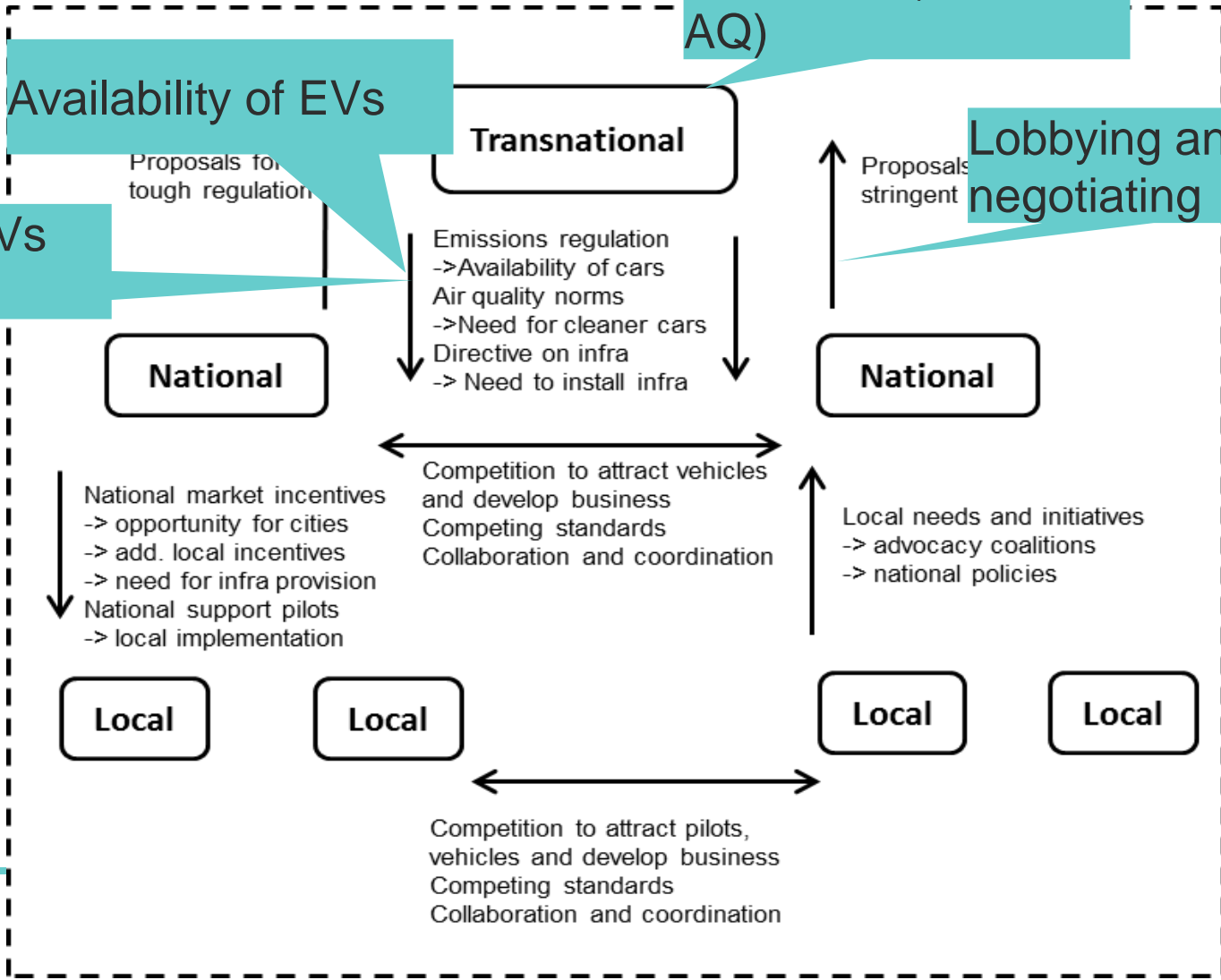
e-mobility NSR

Directives (GHG, AQ)

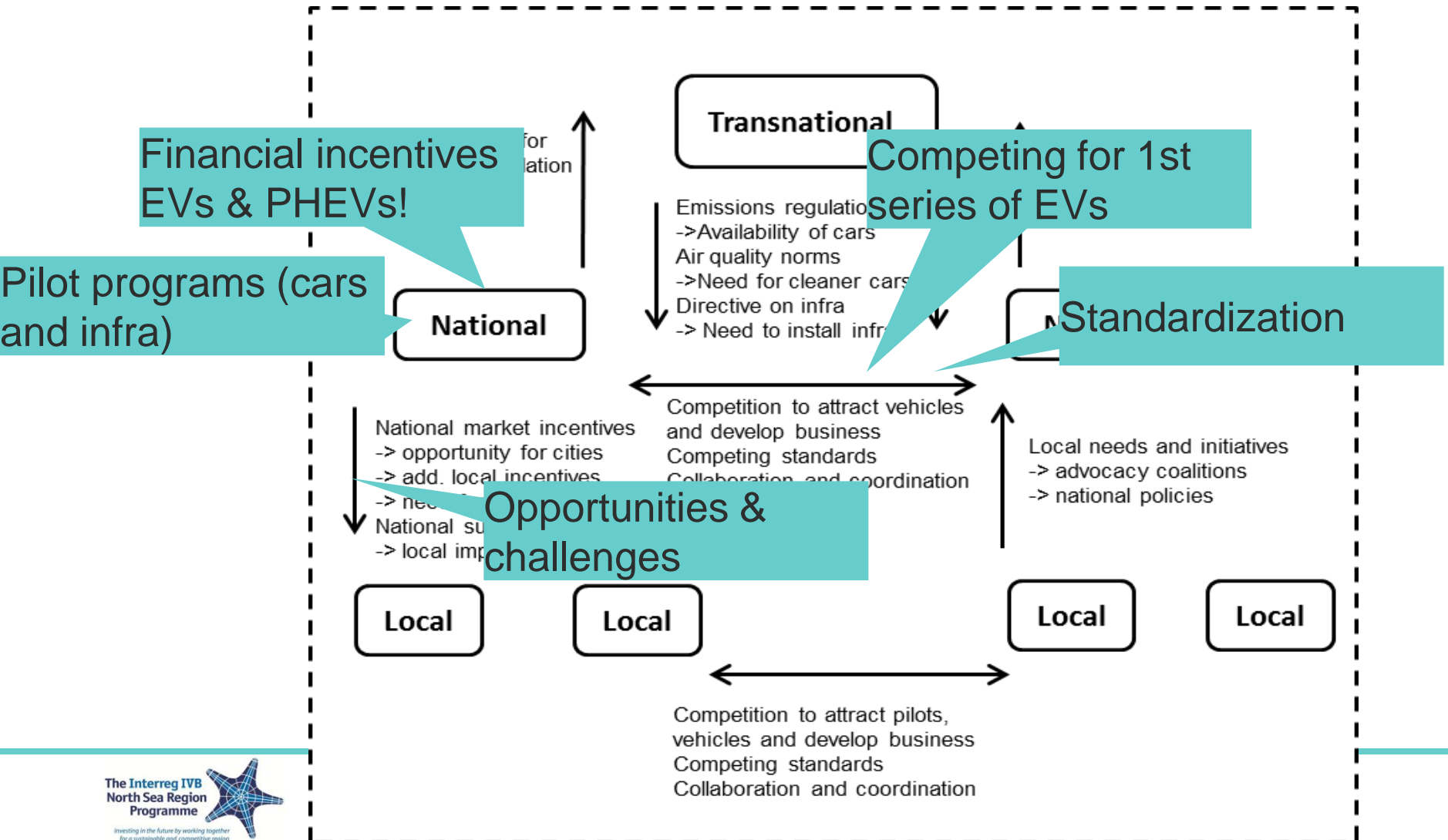
Availability of EVs

Lobbying and negotiating

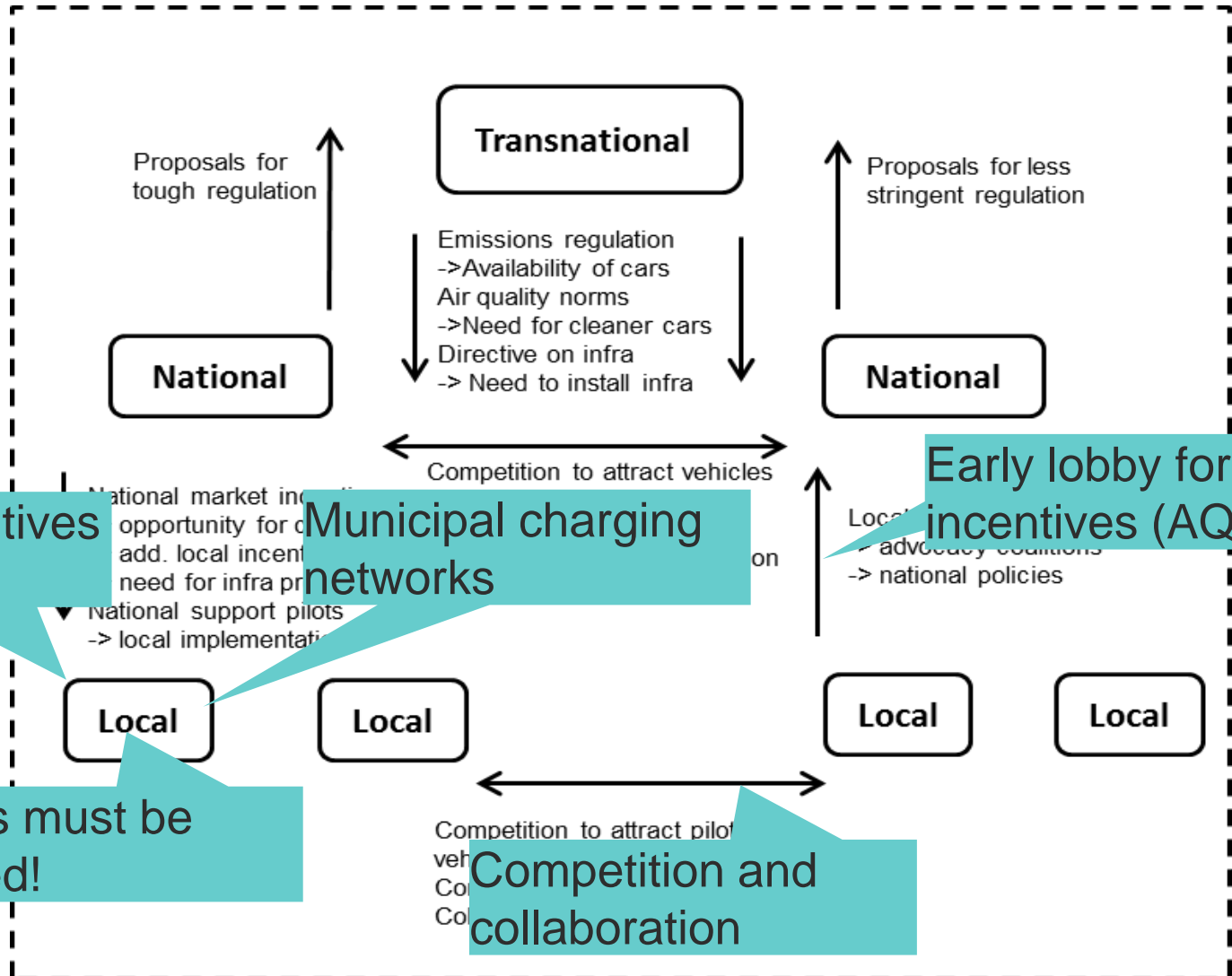
Nations need EVs (AQ)



# Multi-level dynamics



# Multi-level dynamics



Additional incentives for citizens

Municipal charging networks

Early lobby for incentives (AQ)

PHEVs must be charged!

Competition and collaboration

# Mass x Speed



EVs perceived as both necessary & inevitable

Stakeholders need to step in  
Opportunities & Challenges  
GOVs, fleet owners, utilities, grid operators,  
SMEs

Speed too high?

Early standardization!  
High incentives -> opportunistic adoption  
Leapfrogging early adopters  
high costs, suboptimal use



# Direction?

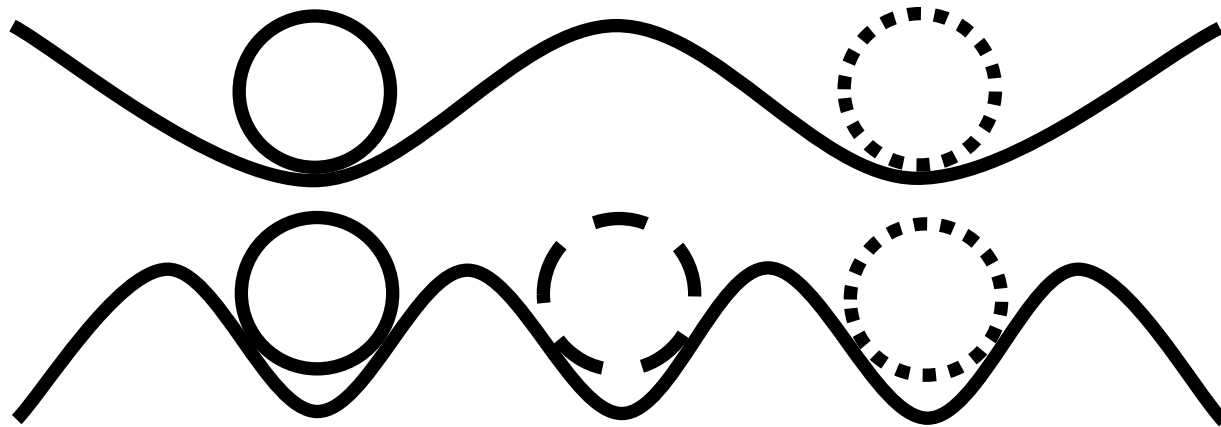


PHEVs instead of full EVs

30% of Km's electric

Need for on-street overnight charging

No/less development of (inter)national network



# Direction?

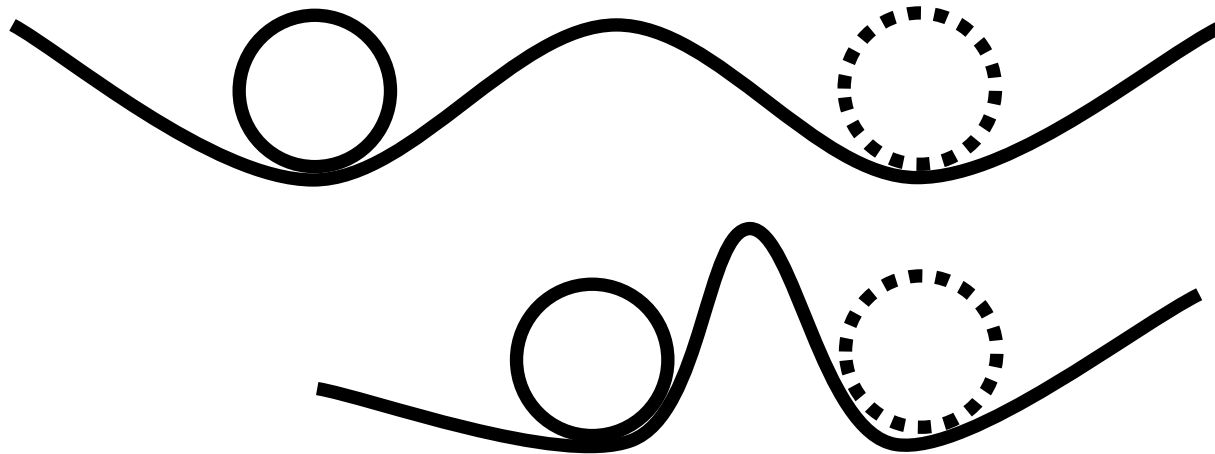


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Process of regulatory learning:

By regulators and the regulated