MAVEN (Managing Automated Vehicles Enhances Network)

Cities and Connected Autonomy

Gap Analysis

Ben Morris
DG Cities, UK

MAVEN Final Event, 6th June, Helmond

MAVEN is funded by the EC Horizon 2020 Research and Innovation Framework Programme, under Grant Agreement No. 690727

Introduction to the Gap Analysis for Cities

Where Cities are Now

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Introduction to the Gap Analysis for Cities

Where Cities are Now

Ideal Future

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Introduction to the Gap Analysis for Cities

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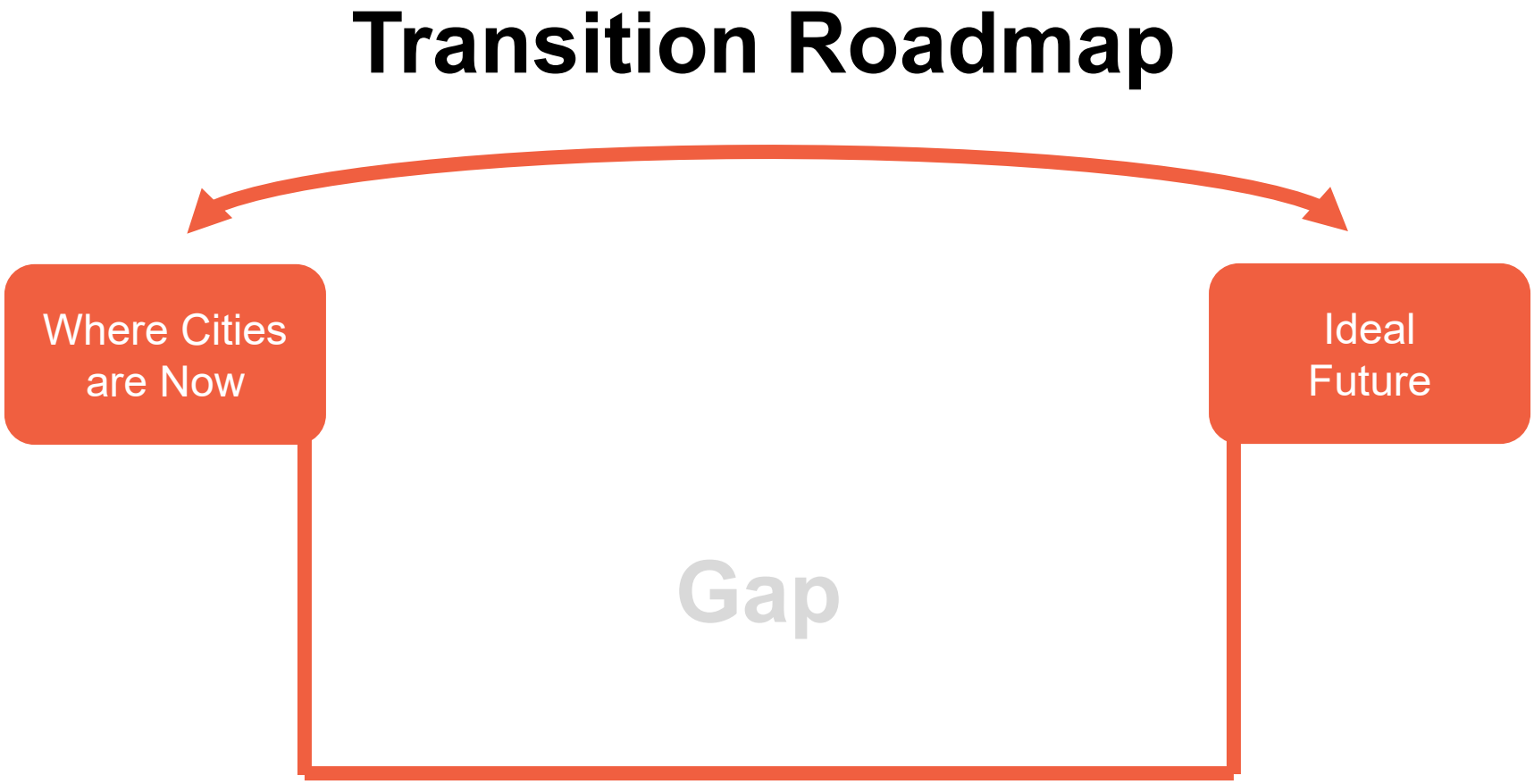
Introduction to the Gap Analysis for Cities



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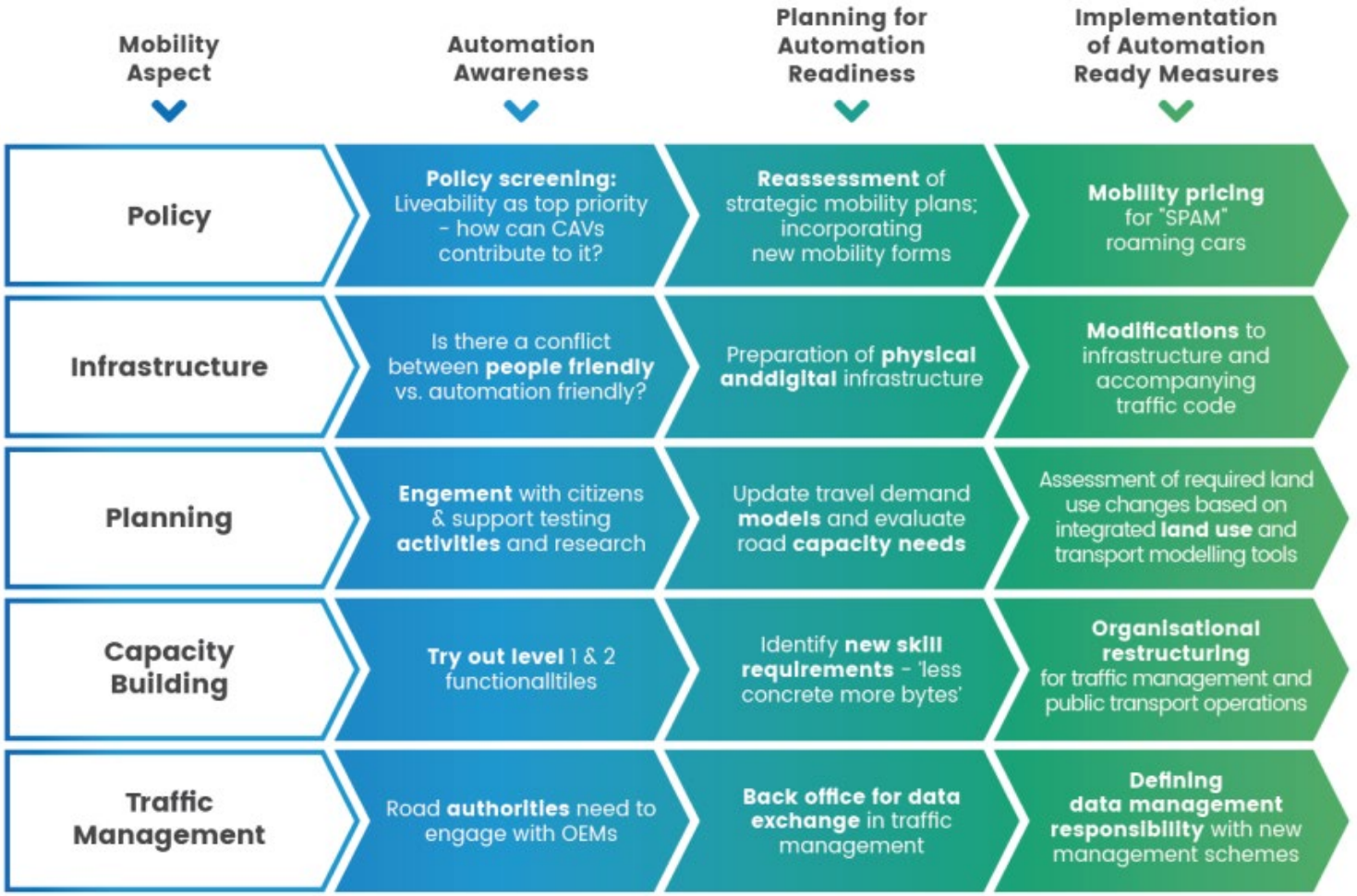
The CoEXist Framework



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Grading System

Ready

Partial

Partially Ready

No Progress

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The CoEXist Framework Applied to Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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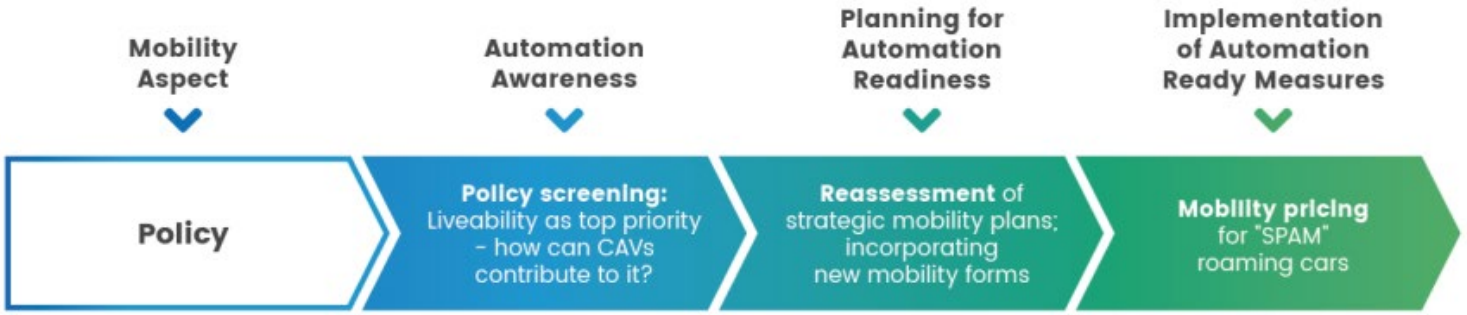
Policy



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Policy Progress in Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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Policy Progress in Greenwich

Policy – CAVs are seen as an opportunity area to improve accessibility, use of space and air quality

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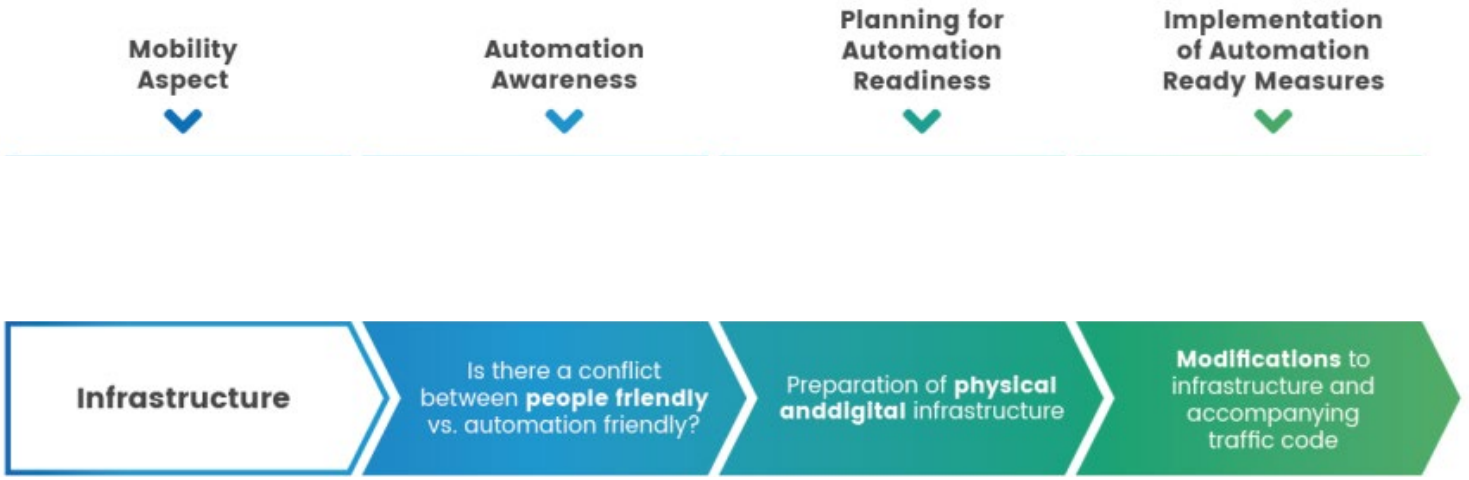
Infrastructure



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Infrastructure Progress in Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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Infrastructure Progress in Greenwich

Policy – CAVs are seen as an opportunity area to improve accessibility, use of space and air quality

Infrastructure – Investment in CAV projects including Smart Mobility Living Lab

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Planning

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Planning Progress in Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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How has Greenwich Made Progress?

Policy – CAVs are seen as an opportunity area to improve accessibility, use of space and air quality

Infrastructure – Investment in CAV projects including Smart Mobility Living Lab

Planning – Citizen engagement and some small scale modelling

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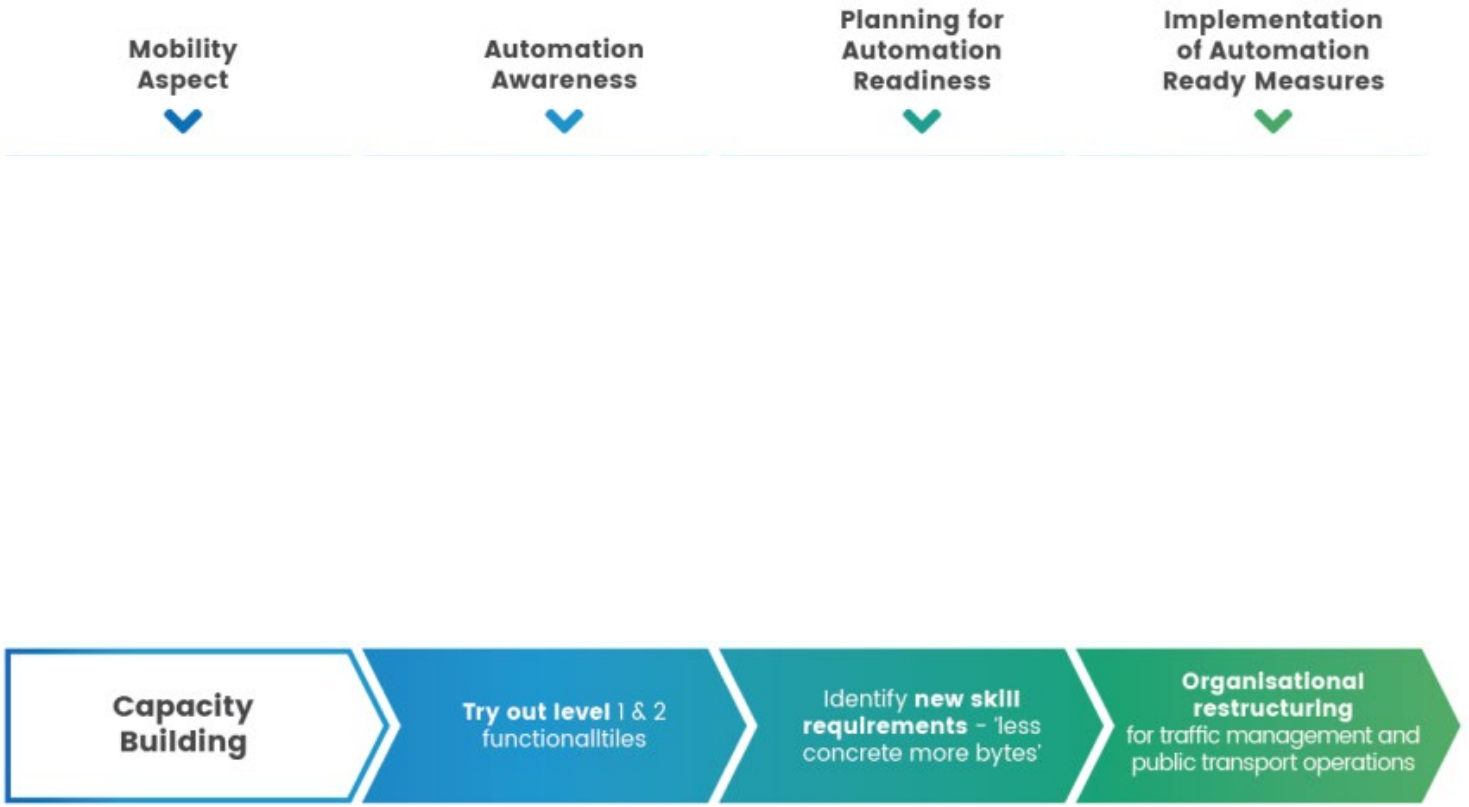
Capacity Building



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Capacity Building Progress in Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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Capacity Building Progress in Greenwich

Policy – CAVs are seen as an opportunity area to improve accessibility, use of space and air quality

Infrastructure – Investment in CAV projects including Smart Mobility Living Lab

Planning – Citizen engagement and some small scale modelling

Capacity Building - Greenwich created DG Cities to build capacity

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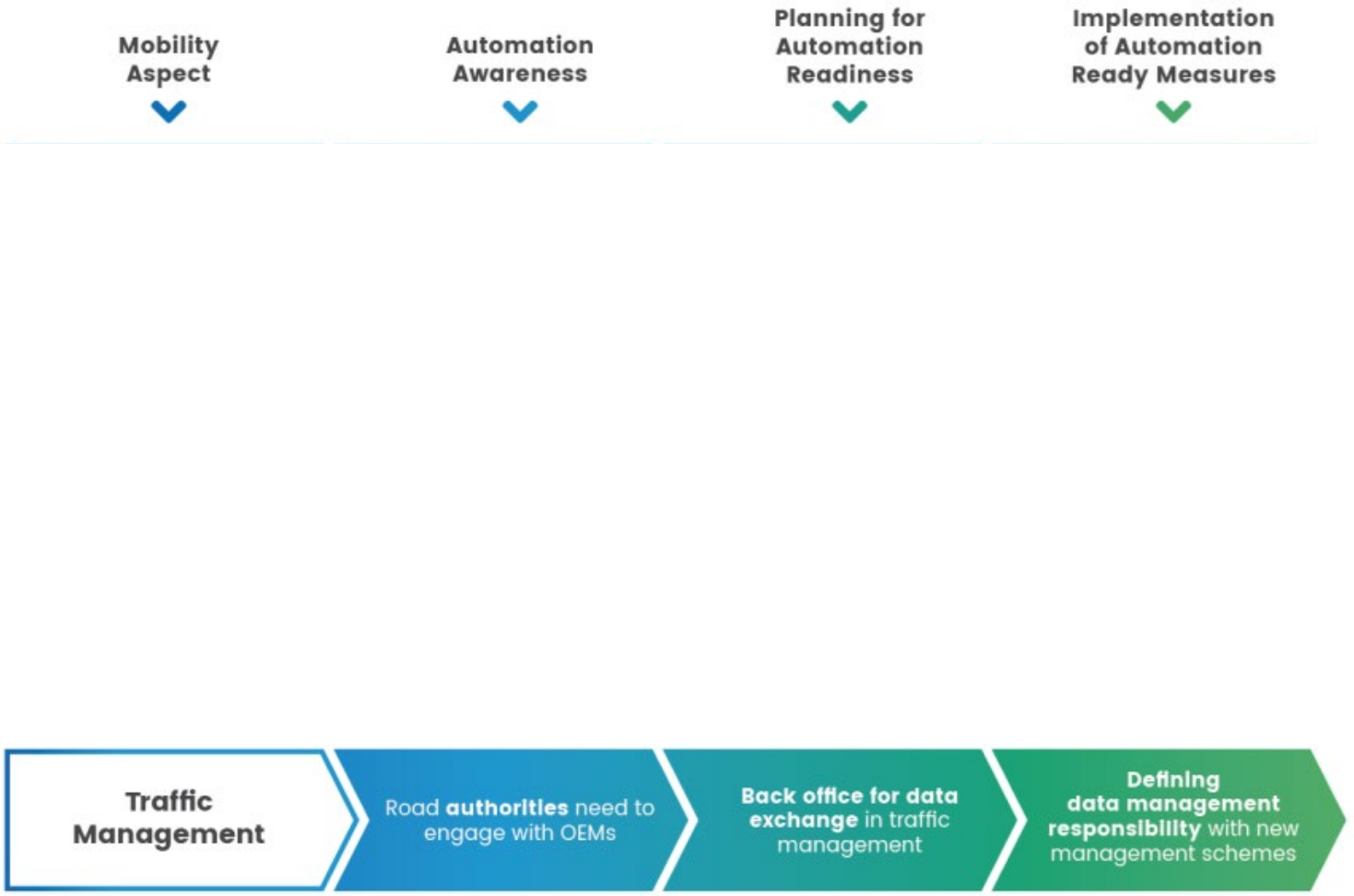
Traffic Management



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Traffic Management Progress in Greenwich

Mobility Aspect	Automation Awareness	Planning for Automation Readiness	Implementation of Automation Ready Measures
Policy	✓	Partial	✗
Infrastructure	✓	✓	Partial
Planning	✓	Partial	✗
Capacity Planning	✓	✓	✗
Traffic Management	Partial	✗	✗

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Traffic Management Progress in Greenwich

Policy – CAVs are seen as an opportunity area to improve accessibility, use of space and air quality

Infrastructure – Investment in CAV projects including Smart Mobility Living Lab

Planning – Citizen engagement and some small scale modelling

Capacity Building - Greenwich created DG Cities to build capacity

Traffic Management – Different in London with TfL more responsible than the boroughs

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Conclusions

Policy – Variable awareness across cities

Infrastructure – Fibre, 5G and V2X deployment required

Planning – Engage citizens and enhance models

Capacity Building – Innovation teams, collaboration and best practice

Traffic Management – Validates need for Transition Roadmap

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Thank you!

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