

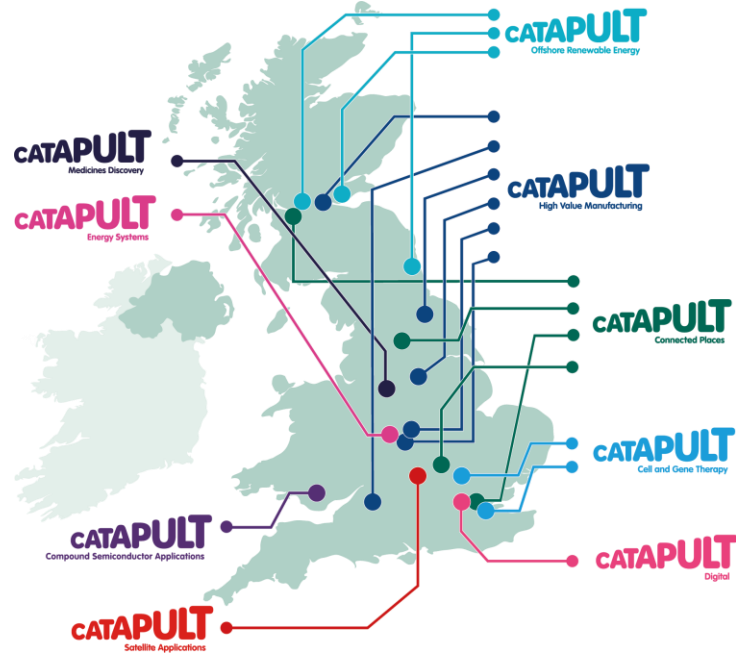
Monday, June 6, 2022

Manual for Smart Streets



Department
for Transport

The Catapult Network



9

world-leading centres across the UK designed to transform and accelerate the UK's capability for innovation and future economic growth.

We work across six domains



Decision making
& institutions



Built environment



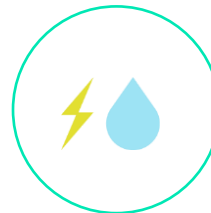
Wellbeing



Mobility



Public space



Critical infrastructure

Our activities in the market take three forms

Connect
the market

Spark
new possibilities

Accelerate
commercialisation

Background

Connected Vehicle Data Research project developed strategy for near term opportunities for connected vehicle data

CVDR

LAMP

Manual for Smart Streets

'MfSS' capitalise use of data and technology for streets and highways.

Authorities

Industry

Enabling Delivery of the Six CVDR Action Plans

Talking Traffic Partnership UK

Migration and legacy

Establish and exploiting national Facilities

Readiness of people and organisations

National connected vehicle data service design guidance

Business case and procurement

LAMP guidance to bring LAs up to date with new technology driven traffic management services



Department
for Transport

CATAPULT
Connected Places



**TRANSPORT
TECHNOLOGY
FORUM**

CVDR - Connected Vehicle Data Research project
LAMP – Local Authority Mobility Platform project

Why is this important now?

- **UK GOVERNMENT'S NATIONAL DATA STRATEGY** and **UK INNOVATION STRATEGY**: identify need to make better use of data and adopt new products and technologies, to drive efficiency and improvements to public services. Build Back and Levelling Up agendas to encourage innovation and build Local Authority capability
- **Future Transport Zones** – Opportunity to adapt best practice, learning and provide national consistency
- **Alignment with DfT Strategy** – Providing cooperative roadside services, moving away from isolated pilots to at scale deployment
- **Data Strategy**– Ensure data is open and interoperable and allow for simpler and more successful procurement and more certainty for suppliers
- **Digitisation and Digitalisation** – Data, tools and systems need to be updated, approaches and processes transformed
- **Commercial** – Support the development of an engaged marketplace
- **Societal benefits** – More options for the end user to make informed decisions over travel choice



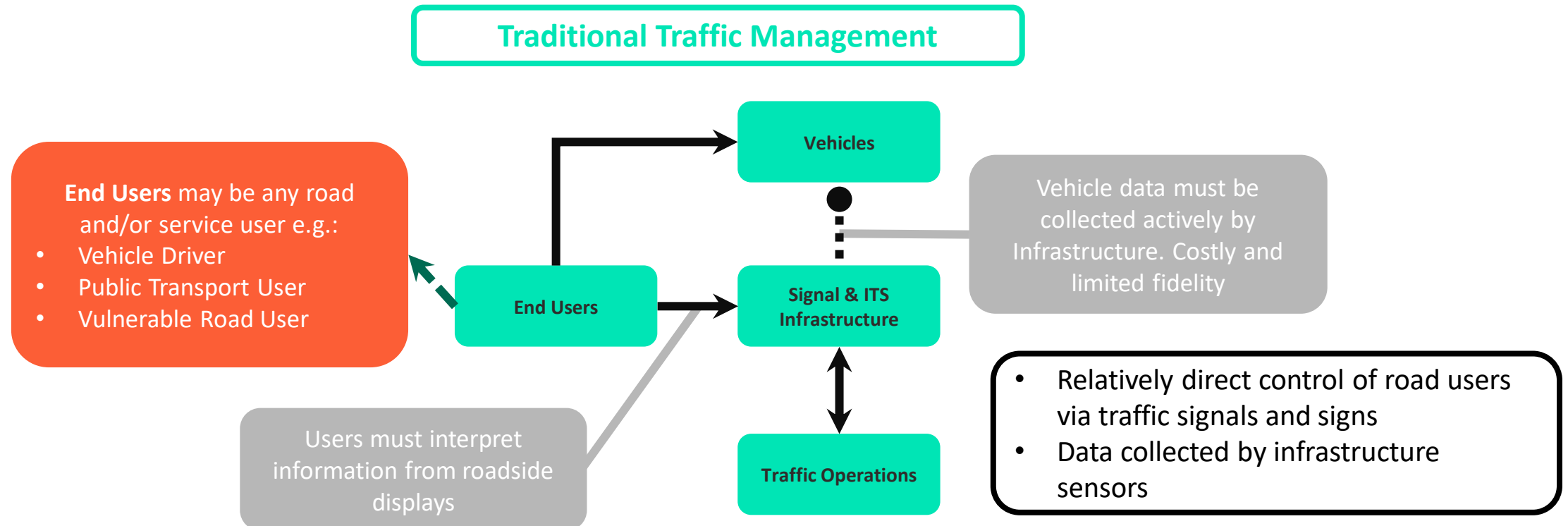
Recommendation 2A:

“Create a framework and standards for Local Authorities to support current and future services”

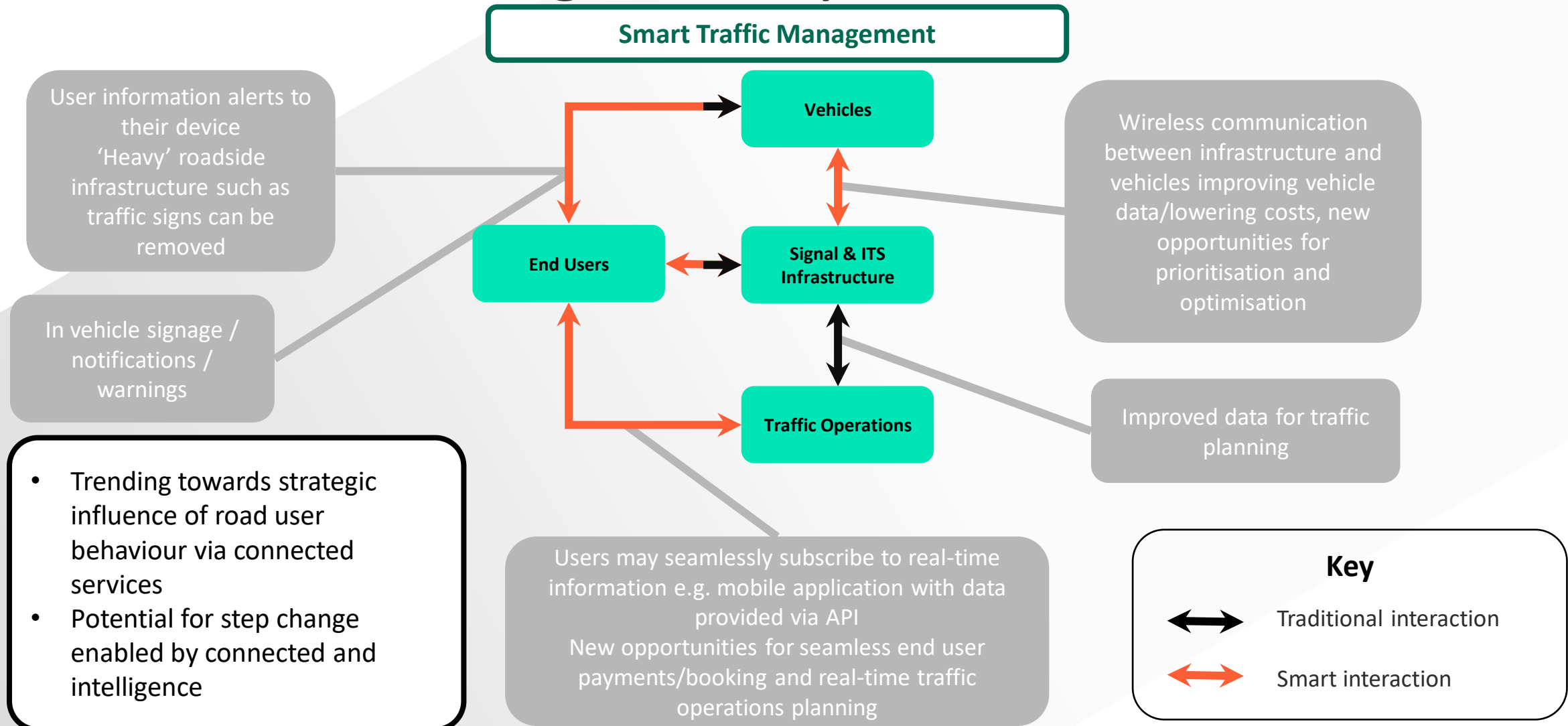
What are Smart Streets?

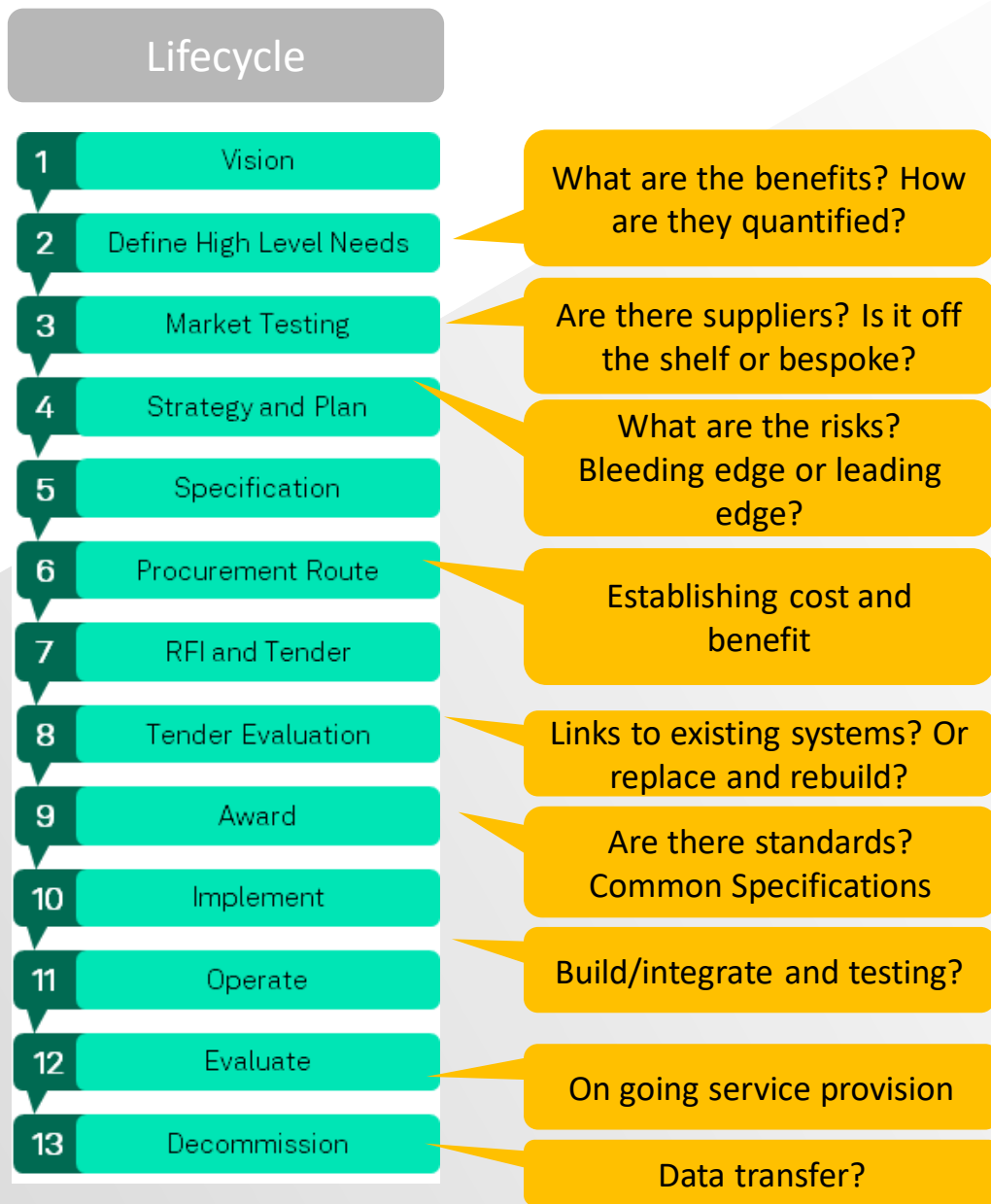
Smart streets are when the management, operation, and maintenance of streets & highways is enhanced through use of data and application of technology

But we have been connecting traffic signals to traffic management systems for over 60 years!



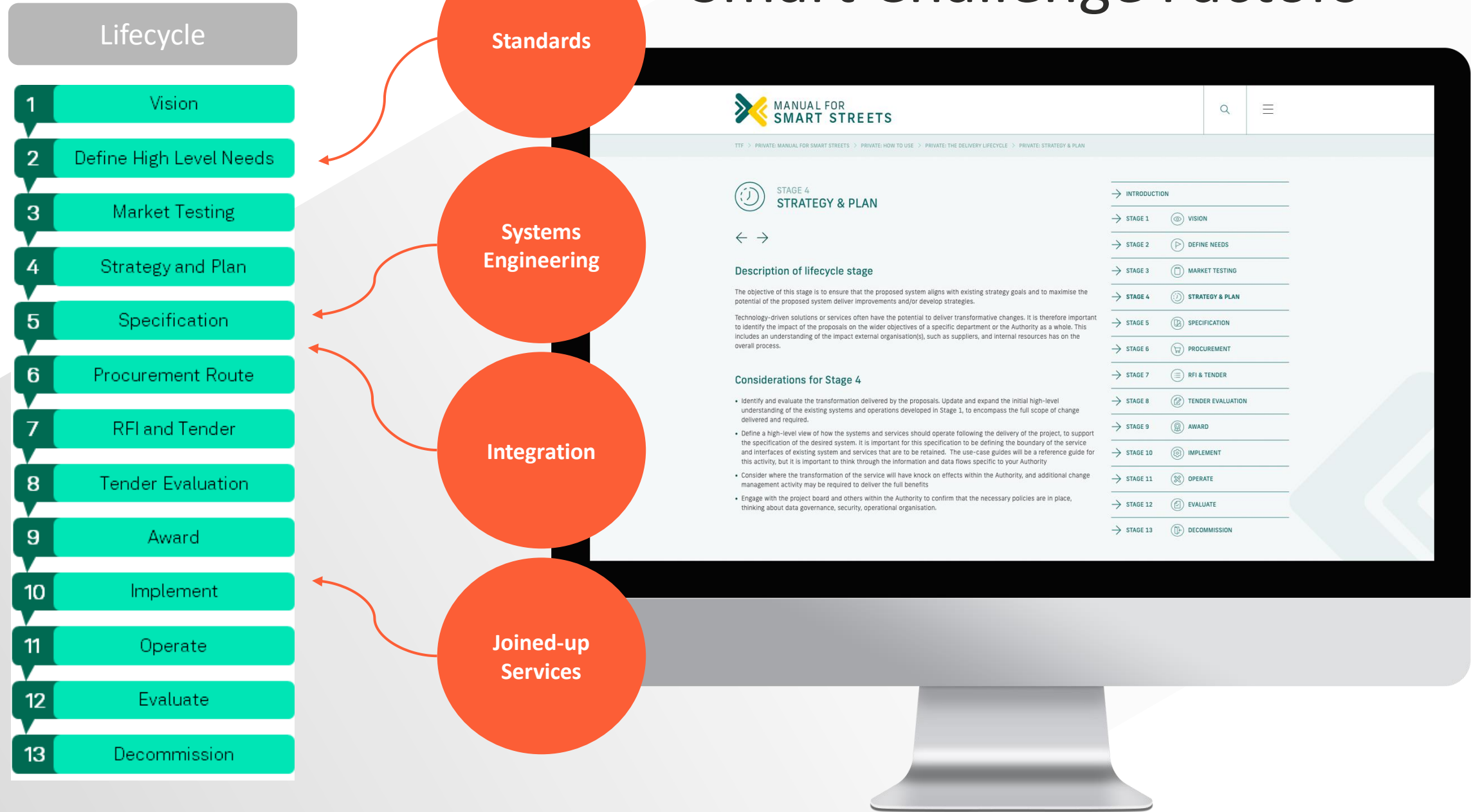
Smart traffic management systems





The Challenge

- **Procurement difficulties are often cited as a key barrier, but is this really the source of the challenge?**
- **A system follows a lifecycle with several steps, each with challenges to overcome**
- **Use of emerging technology and connected data changes the shape of these challenges**



Common Need: Systems Thinking

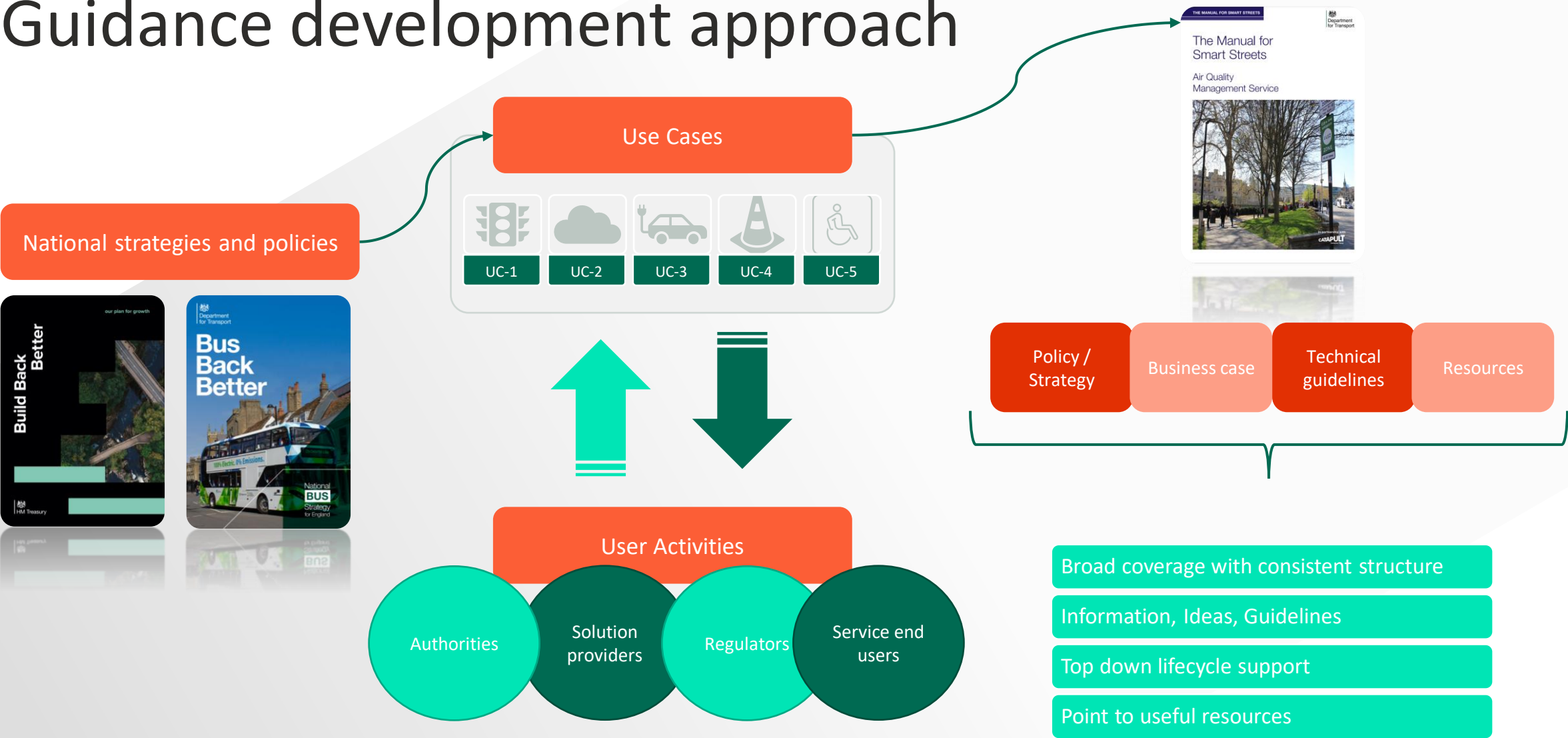
Joined up services are important, why:

- **Interlinked system of systems**
- **Digital services have wide impacts**
- **Digital services are Dynamic**
- **Satisfying user needs**
- **Technology challenges**
- **Evolving**

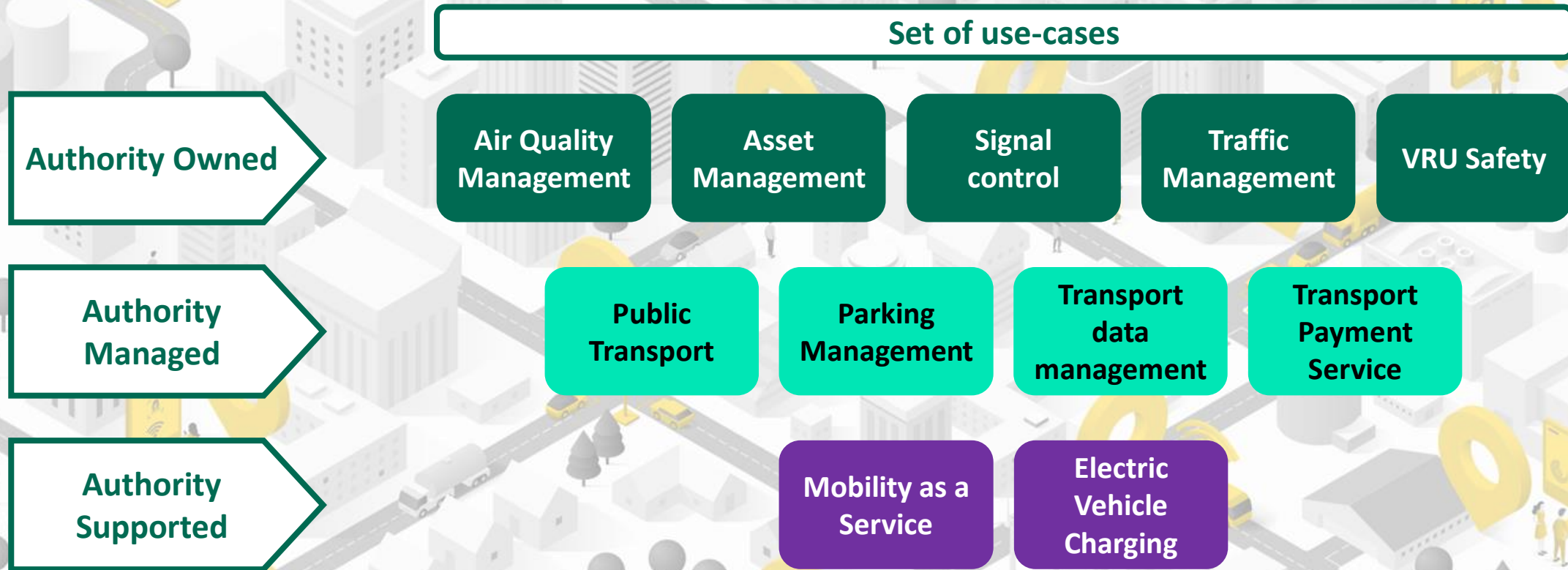
Delivering joined up services

- **Long Term Strategy**
- **Role of Standards**
- **Integrated working**
- **Managing and sharing Data**
- **Planning and development**

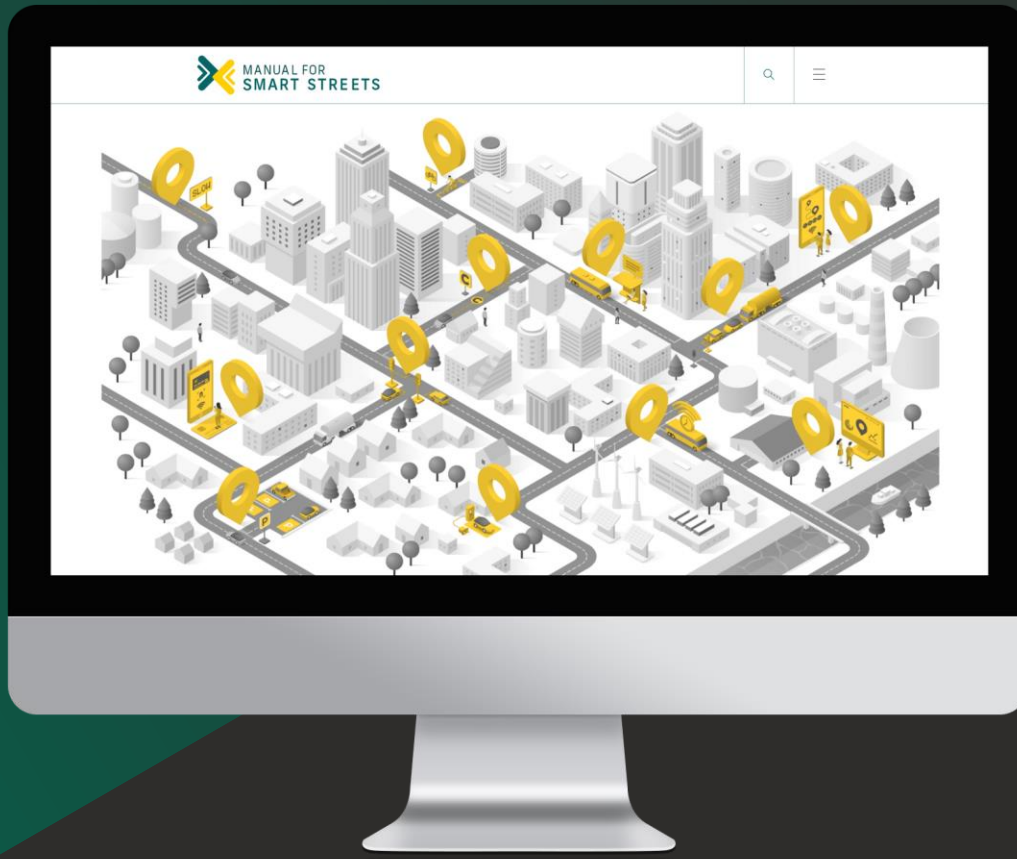
Guidance development approach



Scope – Use Cases



MfSS Online Resource



<https://tff.uk.net/resources/mfss/>

MfSS beta version published on Transport Technology Forum website

Online content provides support, 'how to' and examples

Building engagement and communities around use cases

Collecting and collating case studies

MfSS is designed around:

- Journey through service delivery
- The user journey
- The manager journey

Section A

Background & Context

Definition of Smart Streets, their **benefits**, the **purpose and scope** of the manual, and **policies supported**.

How-to

Guidelines on how to approach implementing Smart Streets

The framework is structured along the lines of a **‘service delivery lifecycle’**

Section B

Use-cases

Practical **guidance for implementing smart streets** for various application areas.

These are presented as a set of **use cases**, each covering a subject area. Intended to provide a meaningful but accessible overview with mappings to **assist strategy and business case development**, and links to more detailed resources.

Section C

Case Studies

A set of **case studies** that provides literature analysis, and/or applied examples that may be referred to in use-cases and/or directly as a reference for the reader.

In Conclusion

MfSS beta version published on TTF website

Full version is developed and being progressively socialised

Intended to be living content, that engages with communities and continues to evolve



<https://tff.uk.net/resources/mfss/>

Thank you

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