

Transport Innovation Programme (North West)

Wendy Alison

Satellite Applications Catapult

Transport Innovation Program (NW)

- Framework for Large Programmes of Innovation
- Cross Catapult
- Focus on a Specific Regional Challenge
- Delivering Jobs and Economic Growth



Transport Innovation Program (NW)

CATAPULT Innovate UK



GMCA GREATER MANCHESTER COMBINED AUTHORITY



WARRINGTON Borough Council



LIVERPOOL CITY REGION COMBINED AUTHORITY

CATAPULT Innovate UK

CATAPULT Innovate UK

The proposal builds upon the combined capability of the UK Catapult network, Innovate UK and the KTN working in collaboration with regional transport authorities, local industry and businesses and the academic community to deliver a focused programme that targets high impact performance areas. Our aim is to do four co-verters that create the environment for change and stimulate significant growth

CATAPULT Innovate UK

Proposed Transport Innovation Programme (North West)

Programme Summary

Introduction

Delivering growth for the economy is dependent upon significantly improving the ability to transport goods and people efficiently and more effectively. By attracting emergent technologies and driving collaboration across different sectors, there is a real opportunity to provide the required improvements in a sustainable manner. This programme seeks to achieve this for the North West region (Greater Manchester, Warrington and Liverpool City Region).

It is our vision that by 2030, the North West Region will be recognised globally for its world class multimodal transport, infrastructure and logistics network. Acting as a global exemplar, we will develop a scalable methodology for implementing a sustainable connected transport network that supports economic social and environmental needs.

Recognising the Need

In June 2016 Transport for the North published its Northern Powerhouse Independent Economic Report. The report describes the significant productivity gap that the Northern Powerhouse seeks to address:

"For the last 30 years the North's GVA per Capita has been consistently about 25% below average for the rest of England."

It identifies several factors driving the gap including sub-optimal transport links and underinvestment in transport, as well as insufficient exploitation of innovation and technology.

The need for infrastructure improvements has been identified by a number of Local Enterprise Partnerships within the North, and Transport for the North itself was created to develop and commission the transport infrastructure needed to connect the Northern Powerhouse. However, major infrastructure works, designed to make these improvements, take a significant investment of time to implement and are not due to commence until the end of the current decade. Subsequently the benefits of the Northern Powerhouse strategic transport improvements will not be felt for some considerable time.

The Value Proposition

The Transport Innovation Programme will accelerate the benefits of a sustainable connected transport network by energising industry to bring the best out of existing assets and infrastructure. It will build a framework for transforming the regional transport network, through the implementation of innovations in technology, behavioural change and business models over the next 5 years.

To achieve improvements, in advance of the planned infrastructure improvements, the programme will focus on three key areas:

- i) **Digitisation**, enabling improved planning and use of the network through the accumulation, analysis and informed dissemination of data.
- ii) **Technology**, enabling improved operation and maintenance of the network through appropriate application of innovative technological solutions.
- iii) **Flexible management**, improving collaboration between businesses, and economic return through new and innovative business models.

TIP(NW)
Issue 2.0

Page 1 of 2

national transport innovation framework that is of the UK.

we will deliver £2bn per annum of additional revenue (previously positioned to deliver this programme of work covering, digital technology and logistics. Building on value jobs to the region. The programme will bring with industry and through the

programme will bring export opportunities to the ability for economic growth, while the it to attract inward investment.

the budget, scope and phasing requirements for the programme will cost £150m which will need to (non funding) (£50m) in order to deliver projects of its development. The budget will be allocated into

agement

ital items

the Team (IPT) to govern the overall delivery, bring in collaboration with stakeholders in us. The involvement of the Catapult network will expertise and as such each Catapult may lead other in several others.

Manchester enabling the IPT to form and to focus on (a) deliver applications and services required by a small team will be retained to measure and report using from the programme intervention.

From Innovate UK, TIGM, the KTN and the Catapult high impact programme. The team will conduct a ders, conduct market analysis, prepare feasibility up the final business case. The output of this project (that is ready for phased implementation.

Page 2 of 2

Transport Innovation Program (NW)

The challenges

For the last about 25% the Englanc

“There is clear evidence that a comprehensive and high-performing transport system is an important enabler of sustained economic prosperity...”

ort Study 2006

“... new National Productivity Investment Fund (NPIF). The NPIF will be targeted at four areas that are critical for productivity: transport, digital communications, R&D and housing.”

Autumn Statement 2016

“Jubilee line and the Docklands Light Railway which successfully supported investment and job creation at Canary Wharf”

Transport and the Economy, 2010-2011

pita)

eration

nsport links and underinvestment in transport

Transport Innovation Program (NW)

Transport Infrastructure Programmes

Bring about improvement through civil infrastructure

Require high levels of investment

Can take decades to implement

Already being addressed

Transport Innovation Programme

Bring about improvement through innovation

Lower degree of investment

Rapid implementation

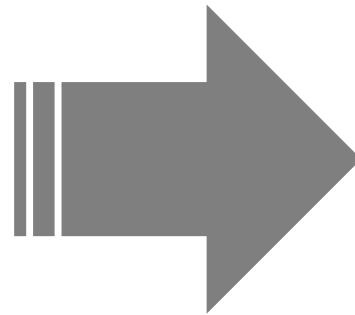
Compliment civil infrastructure

Investment Case

5 Year duration

£150m value

**Transformational
transport programme**



Programme aspirations

£2bn economic growth

20,000 High value jobs

**Transformational
improvement for users**

Transport Innovation
Program (NW)

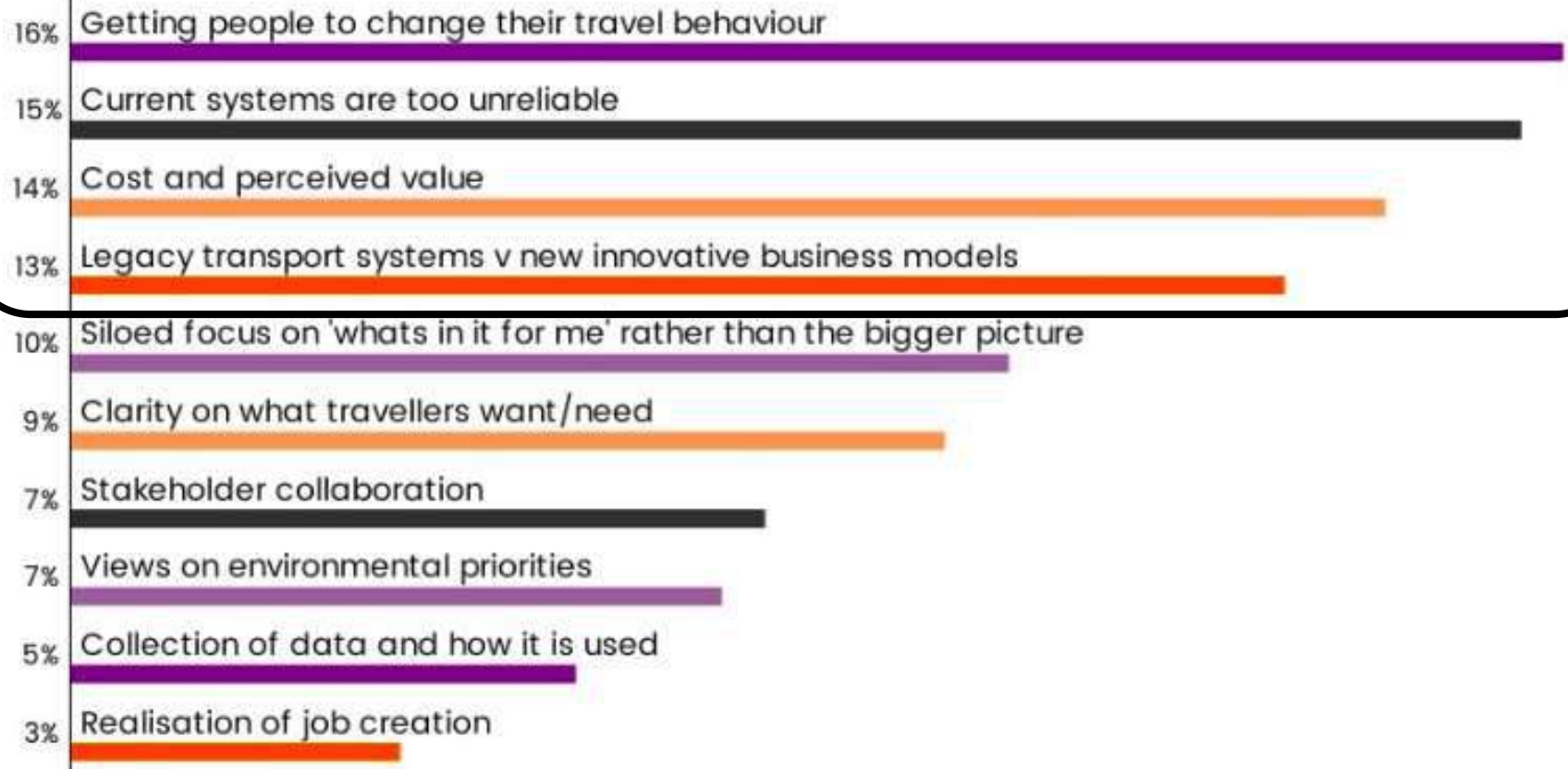
The Transport Innovation Programme - North West (TIP(NW)) is a
£150million initiative to:

**“create and optimise sustainable capacity in the North West of
England from existing physical transport infrastructure through the
use of technology and digital innovation.”**

Transport Innovation
Program (NW)

**What do you think are the main barriers to
improvements in the regional transport
infrastructure?**

58%



Transport Innovation Program (NW)

2

3

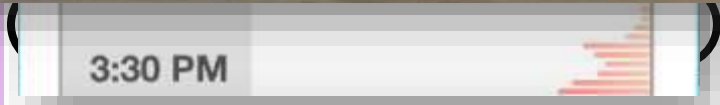
Encouraging Transport outside the po

Early warning of change



Mile Delivery Efficiencies

Enabling Informed Decisions



We need you,
please get involved...

Wendy Alison
wendy.alison@sa.catapult.org.uk