

Intelligent Transport Systems Strategy Consultation

Today, having effective Intelligent Transport Systems (ITS) to manage increasing transport network demand is as important as its physical infrastructure because we cannot expand that anymore. ITS integrate information and communications technology with transport infrastructure, vehicles and users. ITS are widely used throughout the world's major cities as part of a transport management strategy to tackle climate change and to provide an integrated, safe, efficient and sustainable transport system.

Cardiff Council has therefore developed a Draft ITS Strategy, which sets out its vision to 2030 and beyond. This will be key in realising the targets set out within the One Planet Cardiff and Transport White Paper. We would like to know what you think on the key themes discussed within the Strategy, as your views are important to us.

The information that you provide in completing this form will be treated as confidential, in line with the requirements of the Data Protection Act 2018 and the General Data Protection Principles.

Any data supplied by you on this form will be processed in accordance with Data Protection Act requirements and in supplying it you consent to the Council processing the data for the purpose for which it is supplied. All personal information provided will be treated in the strictest confidence and will only be used by the Council or disclosed to others for a purpose permitted by law.

If you wish to withdraw consent at any time, please email consultation@cardiff.gov.uk For further information on how we process your personal data please refer to our Privacy Policy - or contact the Data Protection Officer, Room 357, County Hall, CF10 4UW, email: dataprotection@cardiff.gov.uk

Background Information

Q1. Do you live in Cardiff? **(Please tick one box only)**

Yes No

Q2. How do you usually travel to or from the following activities?
(Please tick all that apply)

	Work	Shopping	Education	Leisure
On foot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bicycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Train	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Car or Van (Driver Alone)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Car or Van (Driver with passengers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Car or Van (passenger)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Park & Ride by Bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Park & Ride by Train	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taxi	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work from home	<input type="checkbox"/>			

Q3. How satisfied are you with the following existing ITS within Cardiff?
(Please tick one box on each row)

	Very satisfied	Fairly satisfied	Neither satisfied nor dissatisfied	Fairly dissatisfied	Very dissatisfied	Don't know
Traffic Signal Junctions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Signalised Crossings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rising Bollards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CCTV Cameras	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Variable Message Signs (VMS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North Road Tidal Flow System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Butetown Tunnels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bus Priority at Traffic Signals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pedestrian Phases at Signal Junctions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cycle Phases at Signal Junctions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Driver Feedback Signs (e.g. Speeds)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Park Cardiff (Smart Parking) App	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OVO Bikes (Nextbikes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric Vehicle (EV) Charging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Active Travel Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Traffic & Journey Time Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digital Air Quality Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third-Party Travel Apps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Transport Real-Time Information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Car Clubs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demand Responsive Transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Urban Traffic Control (UTC) in General	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cardiff as a SMART City	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q4. Do you have any comments you would like to share in relation to your experience of existing ITS within Cardiff as listed in Q3 above?

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THEME 1 - GROUNDWORK: Establish effective infrastructure for improved network management

The current Urban Traffic Control (UTC) Centre monitors the City's transport network. For the past 20 years it has worked in a successful collaboration with South Wales Police, using its current ITS technologies and CCTV cameras to manage the transport network, dealing with traffic disruption, road incidents, congestion, adverse weather or planned events. What is needed now is a newly equipped and better-connected Control Centre to fit for a modern transport network. These measures will ensure that the Centre can support the City's new developments and sustainable transport objectives. As such, it will have the capability to bring multiple agencies together under one roof to promote cooperative working and knowledge sharing.

- Q5. Do you support the roll-out of ITS infrastructure and systems, to improve the efficiency of the transport network? **(Please tick one box only)**
- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support
- Q6. Do you support developing increased Control Room capability, to manage the network and prioritise sustainable modes? **(Please tick one box only)**
- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support
- Q7. Do you support establishing working relationships and exploring co-location opportunities with partner transport operators, to better coordinate network operations, including event and incident management? **(Please tick one box only)**
- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support
- Q8. Do you support the development of a business case for a new Control Room? **(Please tick one box only)**
- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support
- Q9. Do you have any other comments in relation to this theme?
-

THEME 2 - ENGAGE CUSTOMERS: Implement City-wide transport communication and boost public transport and active travel with ITS

Improved communication and information gathering, and sharing will allow us to make better operational and planning decisions for buses, trains, cycling, vehicle routes, parking, and interchanges as well as fare tariffs.

Q10. Do you support the development of a transport user (car/bus/cycle) app/website to better inform travel making decisions?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q11. Do you support improving transport provider access to user feedback and customer relations, to provide better informed, sustainable travel interventions to transport users?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q12. Do you support using geographical and real-time data, to understand user journey experiences and highlight the need for improvements?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q13. Do you support exploring opportunities to incentivise sustainable travel?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q14. Do you have any other comments in relation to this theme?

THEME 3 - ESTABLISH THE SMART TRANSPORT NETWORK: Implement Smart Corridors

It is fair to say that technology has revolutionised the transport sector and presents an exciting opportunity to address a wide range of social, environmental and economic issues. In order for Cardiff to maximise the potential of these transport opportunities, it needs to modernise its communications to support the plethora of ITS technologies that are available. The objective is to deploy ITS technology that enhances the ability to monitor, control and inform on each Corridor. A SMART Corridor uses extensive real-time data to intelligently manage the movement of traffic, public transport, pedestrians and cyclists into the city, and to improve air quality. It will also influence travel behaviour by helping people to make better informed travel decisions and supporting mode shift.

Q15. Do you support identifying ITS improvement opportunities, to provide safer, more efficient journeys for walking, cycling and public transport?

(Please tick one box only)

- Very supportive
 Fairly supportive
 Neither
 Fairly unsupportive
 Do not support

Q16. Do you support working with the Welsh Government and regional partners, to improve the management of cross-boundary movements?

(Please tick one box only)

- Very supportive
 Fairly supportive
 Neither
 Fairly unsupportive
 Do not support

Q17. Do you support developing and delivering a programme of corridor improvements that better utilise technology to improve network performance?

(Please tick one box only)

- Very supportive
 Fairly supportive
 Neither
 Fairly unsupportive
 Do not support

Q18. Do you support doing the following through deployment of SMART Corridors?
(Please tick one box on each row)

	<i>Very supportive</i>	<i>Fairly supportive</i>	<i>Neither</i>	<i>Fairly unsupportive</i>	<i>Very unsupportive</i>
Managing queuing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improving journey time reliability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reallocation of road space	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Managing air quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased data collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Prioritising cycles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritising walking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prioritising public transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Real-time travel information	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
'Gating' of traffic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If 'other' – please specify _____

Q19. Do you have any other comments in relation to this theme?

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THEME 4 - FULLY INTEGRATE MASS TRANSIT:
Enhance the use of demand management technology

Making future transport more intelligent, sustainable and efficient creates a range of opportunities to acquire new skills that will boost economic growth. This will be a collaborative environment which focuses on the current and future skills required to support the City's green recovery through a focus on sustainable transport modes aligned to the City's key transport objectives.

Q20. Do you support working in partnership with the Welsh Government and Transport for Wales to deliver integrated ticketing?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q21. Do you support exploring opportunities to use existing and emerging demand management systems and technology, to support an integrated mass-transit network?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q22. Do you support expanding Smart Parking, to provide a fully integrated solution for efficient parking?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q23. Do you support exploring opportunities for Mobility as a Service (MaaS)?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q24. Do you have any other comments in relation to this theme?

Further Questions

Q25. Do you support Cardiff becoming a Smart City?

(Please tick one box only)

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q26. Do you support providing the infrastructure that enables vehicles to communicate with the transport systems providing users with journey information? **(Please tick one box only)**

- Very supportive Fairly supportive Neither Fairly unsupportive
 Do not support

Q27. Do you think Cardiff should be assessing for Autonomous Vehicles at this stage? **(Please tick one box only)**

- Yes No Don't know

If 'yes' or 'no' – please clarify your reasoning why

Q28. Do you have any other ideas on how Cardiff can exploit Smart technology to improve transport in Cardiff, if so, we would welcome your thoughts below?

Q29. Is there anything else the Council can do through technology to help you to travel more sustainably?

About You

Q30. In total, how many cars or vans are owned, or available for use, by members of your household, include any company car(s) or van(s) available for private use?

- None 1 2 3 4 or more

Q31. In total, how many bicycles are owned, or available for use, by members of your household?

- None 1 2 3 4 or more

Q32. Please provide your postcode (e.g. CF10 4UW) and/or locality (e.g. Fairwater) below. This will allow us to more accurately pinpoint respondents' view and needs by area, and to make sure we've heard from people in all parts of the city.

Postcode _____ Locality/Ward _____

Q33. What was your age on your last birthday?

- Under 16 16-24 25-34 35-44 45-54 55-64
 56-74 75+ Prefer not to say

Q34. Are you...?

- Male Female Trans Other Prefer not to say

Q35. Do any children live in your household? (**Please tick all that apply**)

- No children Yes, under 5
 Yes, aged 5-11 (primary school) Yes, aged 11-16 (secondary school)
 Yes, aged 16-18 (in education/working) Yes, aged 16-18 (other)

Q36. Which of the following best describes what you are doing at present?

- Working full-time Working part-time On a zero-hour contract
 Permanently sick/disabled In full-time education On a training scheme
 Retired Looking after the home caring for a child/adult
 Unemployed - registered job seeker
 Unemployed - unregistered seeking work
 Other

Q37. Which of the following best describes your housing tenure?

- Owned outright Owned with a mortgage Private rented
 Rented from local authority Rented from housing association Other

Q38. Do you identify as a disabled person?

- Yes No Prefer not to say

Q39. Please tick any of the following that apply to you.

- Deaf/Deafened/Hard of Hearing Visual impairment
 Learning impairment/difficulties Mental health difficulties
 Wheelchair user Mobility impairment
 Long-standing illness or health condition Prefer not to say
 Other

Q40. Can you understand, speak, read or write Welsh? (**Please tick all that apply**)

- Understand spoken Welsh Speak Welsh Read Welsh
 Write Welsh None of the above

Q41. Do you regard yourself as belonging to any particular religion?

- Christian Muslim Jewish Hindu
 Sikh Buddhist Other No religion
 Prefer not to say

Q42. How would you describe your sexual orientation?

- Heterosexual/Straight Gay Woman/Lesbian Gay Man
 Bisexual Other Prefer not to say

Q43. Are you...?

- Single Married In a Same-sex Civil Partnership
 Living together Widowed Separated/divorced
 Prefer not to say

Q44. What is your ethnic group?

- White - Welsh/English/Scottish/Northern Irish/British
 White - Irish
 White - Gypsy or Irish Traveller
 White - Any other White background
 Mixed/Multiple-ethnic groups - White and Asian
 Mixed/Multiple-ethnic groups - White and Black Caribbean

- Mixed/Multiple-ethnic groups - White and Black African
- Mixed/Multiple-ethnic groups - Any other Mixed or Multiple background
- Asian/Asian Welsh/Asian British - Indian
- Asian/Asian Welsh/Asian British - Pakistani
- Asian/Asian Welsh/Asian British - Chinese
- Asian/Asian Welsh/Asian British - Bangladeshi
- Asian/Asian Welsh/Asian British - Any other Asian background
- Black/Black Welsh/Black British/Caribbean/African - Caribbean
- Black/Black Welsh/Black British/Caribbean/African - African
- Black/Black Welsh/Black British/Caribbean/African - Any other Black background
- Arab
- Any other ethnic group
- Prefer not to say

Q45. Are you interested in joining the Citizens' Panel to be contacted about taking part in further Cardiff Council consultations? If so, please provide contact details below.

Name _____

Email _____

Tel. No. _____

Thanks for taking to time to complete this survey.
Please click the '✓' to submit your responses