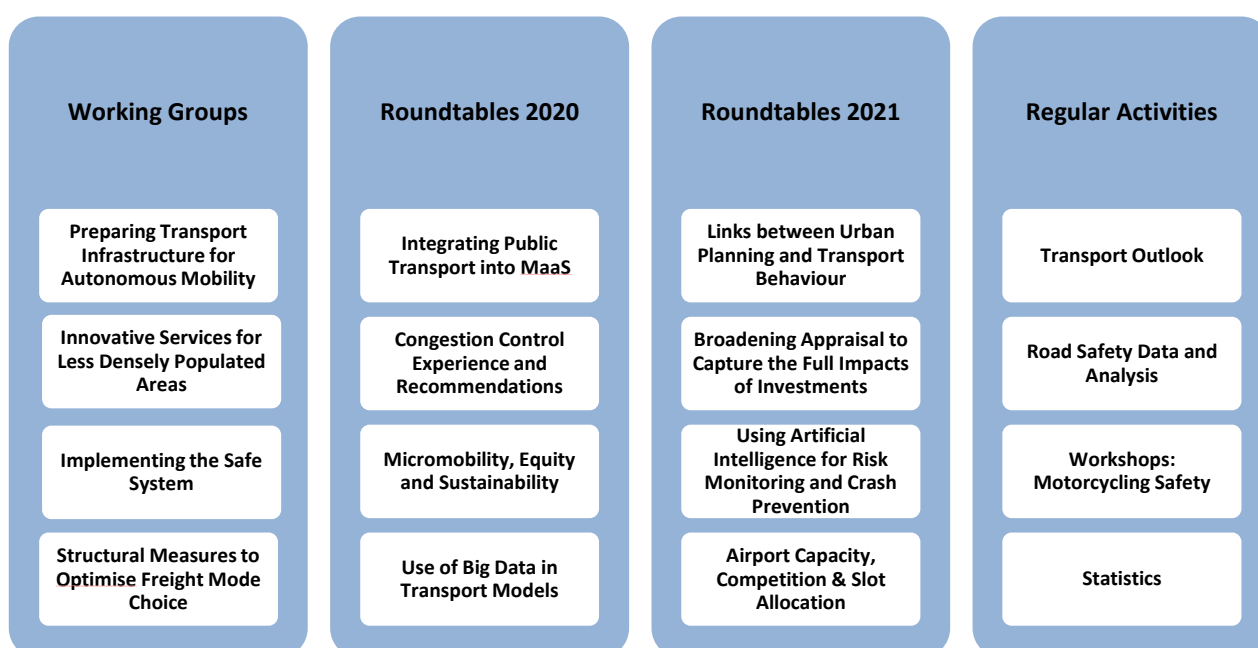## Transport Research Committee Programme of Work: Progress with Projects

The research programme of the International Transport Forum (ITF) aims to improve capacity for transport policy decision-making through collaborative research. At the core of the work is the collaborative programme of work overseen by the ITF Transport Research Committee, which maintains international information exchange of data, statistics, engineering experience, and economic policy analysis. A number of methods are employed, including working groups of experts from national administrations that address policy issues of current priority, and roundtable meetings for intensive discussion between leading experts on critical areas of research with clear policy relevance.

The Transport Research Committee (TRC) periodically reviews priorities and establishes two-year programmes of work based on project proposals submitted by ITF Members countries. In particular, the reviews set priorities for the establishment of new working groups, as these require provision of in-kind resources by Ministries and research agencies. The reviews also decide on the topics of the four ITF Roundtables currently held each year, and schedule work to underpin the Annual Summit of the ITF. The projects selected for the period 2020-2021 are summarised in the figure below.

*Summary of 2020-2021 Projects*

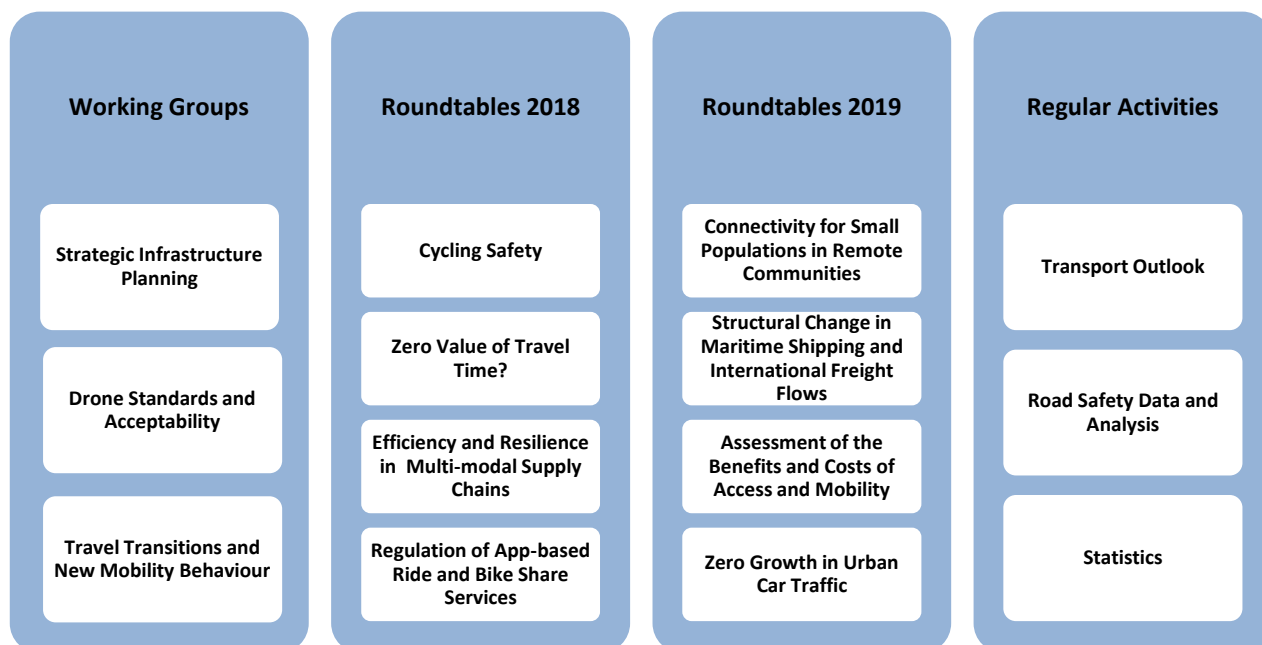| Working Groups | Roundtables 2020 | Roundtables 2021 | Regular Activities |
|---|---|---|---|
| Preparing Transport Infrastructure for Autonomous Mobility | Integrating Public Transport into MaaS | Links between Urban Planning and Transport Behaviour | Transport Outlook |
| Innovative Services for Less Densely Populated Areas | Congestion Control Experience and Recommendations | Broadening Appraisal to Capture the Full Impacts of Investments | Road Safety Data and Analysis |
| Implementing the Safe System | Micromobility, Equity and Sustainability | Using Artificial Intelligence for Risk Monitoring and Crash Prevention | Workshops: Motorcycling Safety |
| Structural Measures to Optimise Freight Mode Choice | Use of Big Data in Transport Models | Airport Capacity, Competition & Slot Allocation | Statistics |

The 2020 Roundtables are scheduled as follows:

- Integrating Public Transport into Mobility-as-a-Service, 10-11 September 2020, Paris;
- Congestion Control Experience and Recommendations, 21-22 September 2020, Paris;
- Micromobility, Equity and Sustainability, 3-4 December 2020, Wellington;
- Use of Big Data in Transport Models, 14-15 December 2020, Paris.

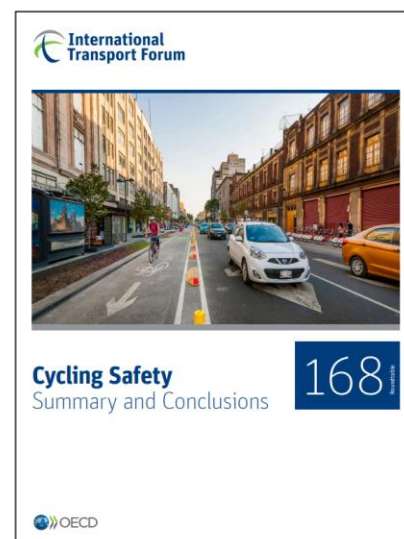## Progress with Projects under 2018-2019 Programme of Work

*Summary of 2018-2019 Projects*

| Working Groups | Roundtables 2018 | Roundtables 2019 | Regular Activities |
|---|---|---|---|
| Strategic Infrastructure Planning | Cycling Safety | Connectivity for Small Populations in Remote Communities | Transport Outlook |
| Drone Standards and Acceptability | Zero Value of Travel Time? | Structural Change in Maritime Shipping and International Freight Flows | Road Safety Data and Analysis |
| Travel Transitions and New Mobility Behaviour | Efficiency and Resilience in Multi-modal Supply Chains | Assessment of the Benefits and Costs of Access and Mobility | Statistics |
| | Regulation of App-based Ride and Bike Share Services | Zero Growth in Urban Car Traffic | |

### Roundtable - Cycling Safety

Status - Report published 2018.

https://www.itf-oecd.org/cycling-safety

**Roundtable - Zero Value of Time**

Status – Roundtable held on 25-26 September 2018.
Report to be published in 2019 with title *Zero Value of Time Savings?*
Input papers and presentations available on project webpage:
https://www.itf-oecd.org/zero-value-time-roundtable

https://www.itf-oecd.org/what-value-saving-travel-time

**Roundtable - Efficiency and Resilience in Multi-modal Supply Chains**

Status - Report published 2018, with title Balancing Efficiency and Resilience in Management of Multi-modal Supply Chains.

https://www.itf-oecd.org/balancing-efficiency-and-resilience-multimodal-supply-chains-2
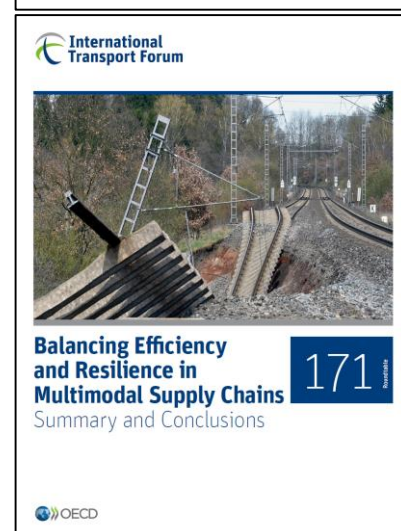
**Roundtable – Regulation of App-Based Ride and Bike Share Services**

Status – Roundtable held on 1-2 November 2018 in Beijing.
Report published 2019 with title *Regulating App-Based Mobility Services*.

https://www.itf-oecd.org/regulating-app-based-mobility-services
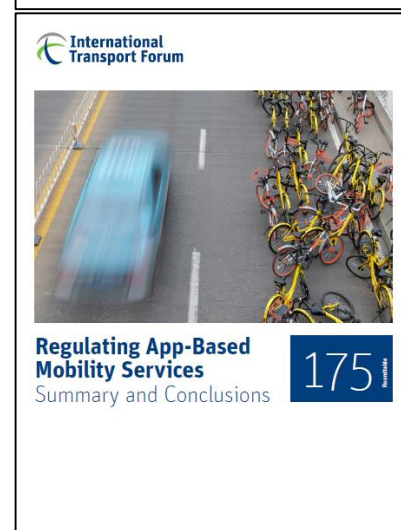
**Roundtable - Structural Change in Maritime Shipping and International Freight Flows**

Status – Roundtable meeting held 15-16 April 2019, Paris

This roundtable identified an analytical framework to evaluate national and regional impacts of structural change in maritime shipping on transport systems. Significant investments in infrastructure, like the widening of the Panama and Suez Canals and the availability of a northern trading route in the Arctic, are expected to profoundly affect international freight flows. Coupled with structural change in container shipping, and strategic investment in ports under initiatives such as China's Belt and Road, there could be major changes in trade routes.

**Roundtable - Connectivity for Small Populations in Remote Communities**

Status – Roundtable meeting held on 23-24 September 2019, Ottawa.

This roundtable examined how to adequately connect small, remote communities to the transport system. It will discuss the effects of transport service quality on the viability and long-term sustainability of remote communities. Transport services needed for economic development, social integration and delivery of health services will be examined in particular. The roundtable also reviewed the instruments available to policymakers to enhance access to economic centres for these communities.

**Roundtable - Assessment of the Benefits and Costs of Access and Mobility**

Status – Roundtable meeting held 21-22 October 2019, Paris.
Report to be published with the title Accessibility and Transport Appraisal.

This Roundtable focussed on understanding the role of accessibility in transport planning, modelling and appraisal.

**Roundtable - Zero Growth in Urban Car Traffic**

Status – Roundtable meeting held 16-17 December 2019, Paris

This roundtable examined strategies to address two of the main challenges to inclusive transport: reforming transport and land-use policy, and removing biases that favour automobile travel over more affordable modes.

**Transport Outlook**

Report published in May 2019, available on OECD i-Library

https://www.oecd-ilibrary.org/sites/transp_outlook-en-2019-en/index.html?itemId=/content/publication/transp_outlook-en-2019-en
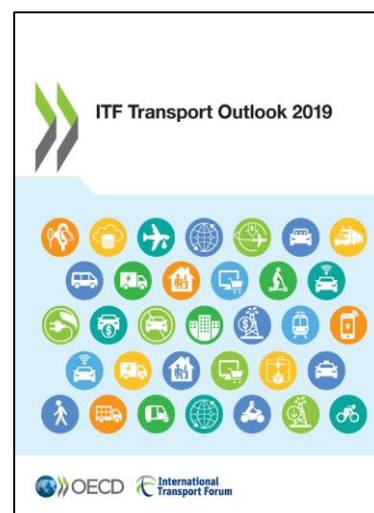
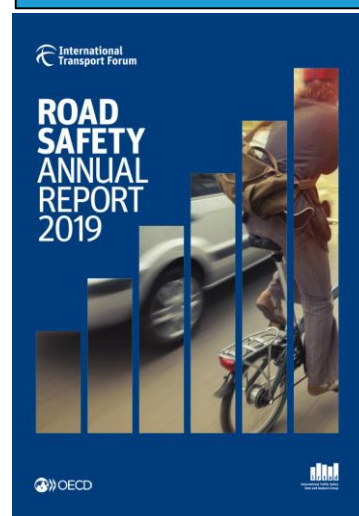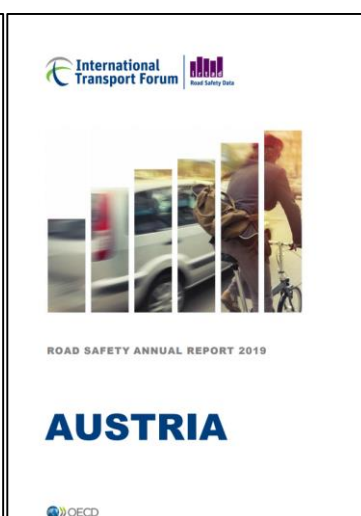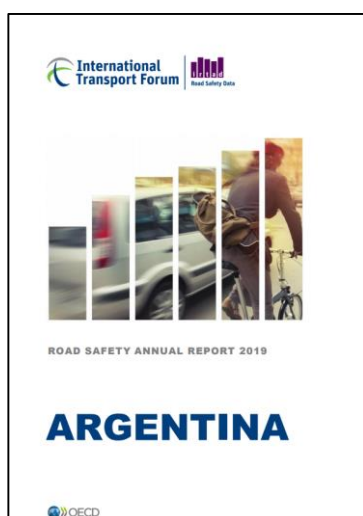**IRTAD Group on International Road Traffic Safety Data**
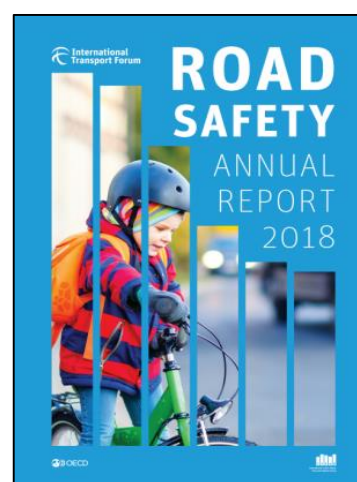
**Annual Report 2019**
Published in May 2018 with supporting national data
https://www.itf-oecd.org/road-safety-annual-report-2018

**Annual Report 2019**
Available on line in 4th quarter 2019 together with national reports.
https://www.itf-oecd.org/road-safety-annual-report-2019

**Speed and Crash Risk**

Thematic report published in May 2018

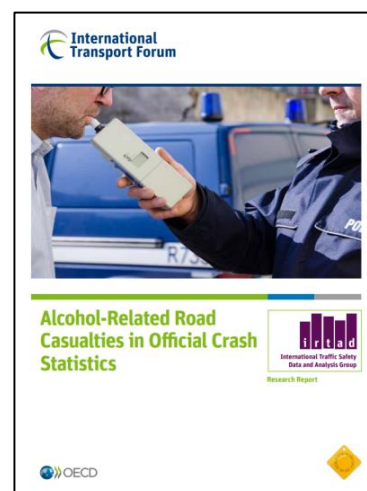https://www.itf-oecd.org/speed-crash-risk

**Alcohol Related Road Casualties**

Thematic report published in February 2018

https://www.itf-oecd.org/alcohol-related-road-casualties-official-crash-statistics

**Updated Estimates of the Relationship Between the Business Cycle and Traffic Fatalities**

Thematic report published in November 2019

https://www.itf-oecd.org/updated-estimates-relationship-between-business-cycle-and-traffic-fatalities
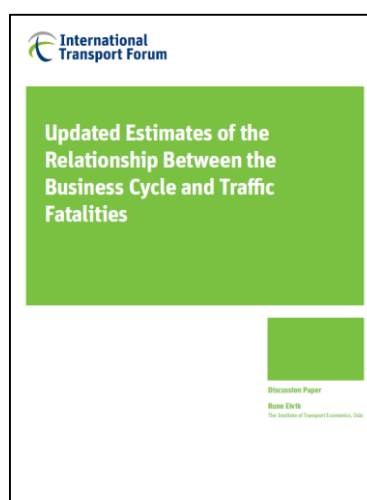
**Working Group - Travel Transitions and New Mobility Behaviour**

New mobility services are developing rapidly, enabled by mobile communications, automated technologies and innovative business models. Consumer behaviour is also rapidly changing, and services based on the sharing economy are gaining popularity. These markets and the potential economic effects of such services are currently not thoroughly understood. The working group will examine how mobility is changing for the young, the old, and for people living in urban environments. It will assess how mobility is influenced by social, economic and technological change. The group will analyse travel behaviour at the level of the household, exploring how dependence, support and shared resources can affect individuals' mobility. This should provide valuable insights into future trends in mobility and support development of appraisal and evaluation tools, including modelling of transport policies. Suitable indicators for monitor the impact of new mobility patterns will be explored and data sources identified. The work should provide valuable insights into formulating transport policies. Report Submission: 2020

**Working Group - Strategic Infrastructure Planning and Accounting for Uncertainty in Relation to New Mobility Services, Automation and Decarbonisation**
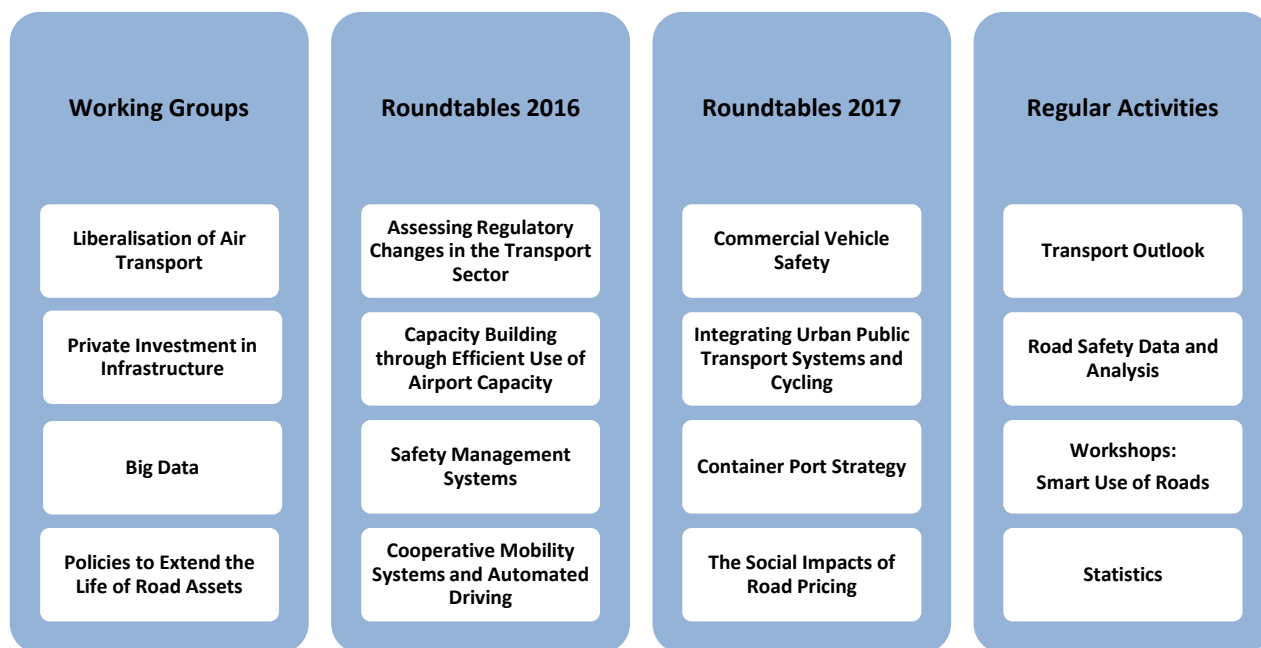
Successful economies need high quality infrastructure, which is an essential enabler of sustained economic prosperity. However, in most countries, a coherent long-term strategy for national infrastructure planning is missing. Most often, infrastructure is planned at the sectoral level over a short-term horizon, and is informed on the basis of project-by-project cost-benefit analysis. Many projects are dictated by reaction to identified urgent needs or short-term political interests, rather than by long-term comprehensive strategies. As such, these assessments do not necessarily factor in cross-sector interdependencies and resilience, and miss opportunities for pursuing systemic resilience, multi-use assets, joint and passive provision. Efforts to develop more comprehensive strategies are at an early stage and there is no established approach or methodology that brings together the insights available from economics, engineering, regulatory policy, and other fields to develop an understanding of how infrastructure networks develop at a systemic level, and what options there might be on supply and demand management sides. There is also a question of how the existing methodologies, in particular cost-benefit analysis, can be complemented in order to create a useful basis for project selection. A particular focus for the Working Group will be the issues of resilience and coping with increasing uncertainty in the transport sector in the face of new mobility services and automation. Against the background of transport policy agenda focused on automation and decarbonisation, the Working Group will investigate the need for resilience measures to be included in the planning system for infrastructure and services, and will discuss how they can be included in CBA. Report Submission: 2020

**Working Group on Drone Standards and Acceptability**

The working group will explore the existing concept designs for drones, their safe introduction into international airspace, their impacts on transport and international trade. Drones have a potential to become a reliable technology for civil, commercial and leisure use. This poses both opportunities and risk. Although surveys suggest public support for the use of drones, their widespread introduction might need regulation to address privacy, safety and security concerns. A collaborative approach is needed to avoid damage, especially from a negative public reaction to commercial drone use and a lack of trust in regulation, to the international market for drone technology. Government regulation of drones is either too restrictive (hampering the development of new designs), or lagging (causing reluctances among end-users). It is therefore important that governments are acquainted with the developments taking place in the international context of the industry. The working group will look at the use of drones to support other modes of transport through surveillance, inspection and remote sensing. It will consider the use of larger drones for both freight and passenger transport. Report Submission: 2020.

# Progress with Projects under 2016-2017 Programme of Work

*Summary of 2016-2017 Projects*

| Working Groups | Roundtables 2016 | Roundtables 2017 | Regular Activities |
|---|---|---|---|
| Liberalisation of Air Transport | Assessing Regulatory Changes in the Transport Sector | Commercial Vehicle Safety | Transport Outlook |
| Private Investment in Infrastructure | Capacity Building through Efficient Use of Airport Capacity | Integrating Urban Public Transport Systems and Cycling | Road Safety Data and Analysis |
| Big Data | Safety Management Systems | Container Port Strategy | Workshops: Smart Use of Roads |
| Policies to Extend the Life of Road Assets | Cooperative Mobility Systems and Automated Driving | The Social Impacts of Road Pricing | Statistics |

## Roundtable - Social Impacts of Time and Space-Based Road Pricing

Status – Published 2018.

The Social Impacts of Road Pricing (RT Summary and Conclusions)

Long-Term Effects of the Swedish Congestion Charges

Assessing the Net Overall Distributive Effect of a Congestion Charge

Reforming Private and Public Urban Transport Pricing

Urban Toll: Rethinking Acceptability Through Accessibility
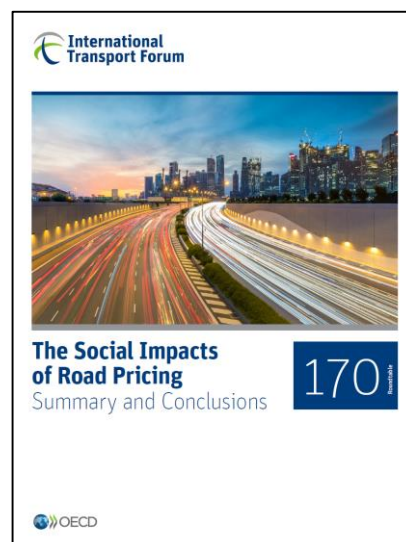
**Roundtable - Integrating Urban Public Transport Systems and Cycling**

Status – Published 2018.

Integrating Urban Public Transport Systems and Cycling (RT Summary and Conclusions)

Bike Share Deployment and Strategies in Japan (RT Discussion Paper)

Modern Tram and Public Transport Integration in Chinese Cities: A Case Study of Suzhou (RT Discussion Paper)

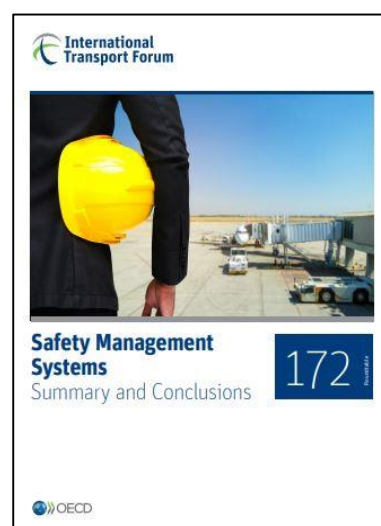Measuring Integration and Urban Sustainability with Indicators (RT Discussion Paper)
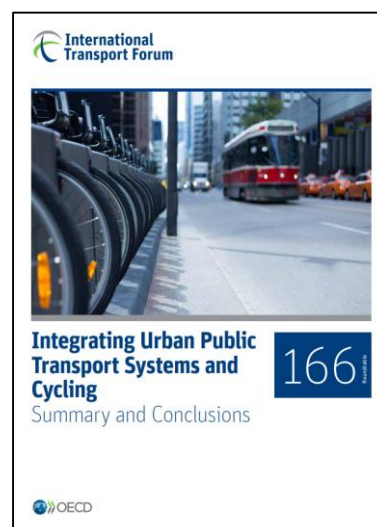
**Roundtable – Safety Management Systems**

Status – published 2018.

Papers and presentations available on project webpage: https://www.itf-oecd.org/safety-management-systems-roundtable

**Roundtable - Capacity Building Through Efficient Use of Existing Airport Infrastructure**

Status – Published 2019.

Capacity Building through Efficient Use of Existing Airport Infrastructure (RT Summary and Conclusions)

Influencing Air Connectivity Outcomes

Time to Sweat the Assets? The analysis of two airport cases of restricted capacity in different continents
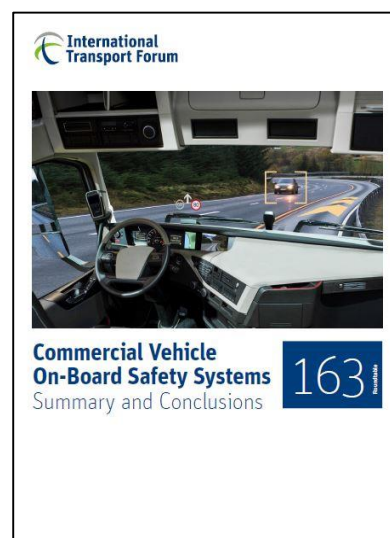
To Allocate Slots or Not: That is the question

Alternative Solutions to Airport Saturation: Simulation Models applied to congested airports

**Roundtable – Commercial Vehicle Safety**

Status – published 2019.

Papers and presentations available on project webpage: https://www.itf-oecd.org/commercial-vehicle-safety-systems-roundtable

**Roundtable – Cooperative Mobility Systems and Automated Driving**

Status – Published 2018.
Cooperative Mobility Systems and Automated Driving (Summary and Conclusions)

Input Papers and presentations available on project webpage: https://www.itf-oecd.org/co-operative-mobility-systems-automated-driving-roundtable

**Roundtable - Container Port Strategy**

Status – Published 2018.

Container Port Strategy (Summary and Conclusions)

The Container Port of Buenos Aires in the Mega-Ship Era

Traffic Planning in Port-Cities

Container Ship Size and Port Relocation
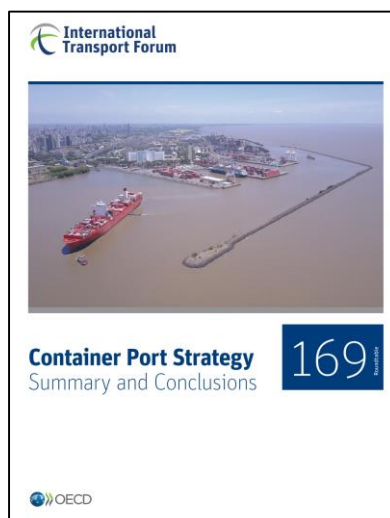
**Roundtable on Assessing Regulatory Changes in the Transport Sector**
https://www.itf-oecd.org/assessing-regulatory-changes-transport-sector-summary-conclusions
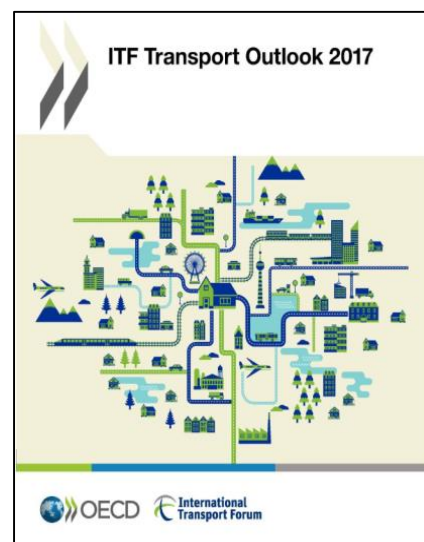
Published October 2019

**Transport Outlook**
Status – published May 2017.
https://www.itf-oecd.org/transport-outlook-2017

**Working Group on Big Data**
Status – Report in drafting, to be integrated with Roundtable on Big Data and Modelling under 2020-21 Programme of Work.

**IRTAD Group on International Road Traffic Safety Data
Annual Report 2017, Annual Report 2016**
Published in May 2017 and May 2016.
https://www.itf-oecd.org/road-safety-annual-report-2017
https://www.itf-oecd.org/road-safety-annual-report-2016
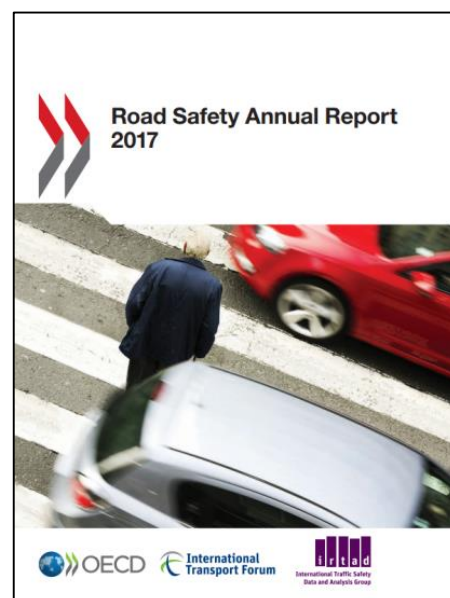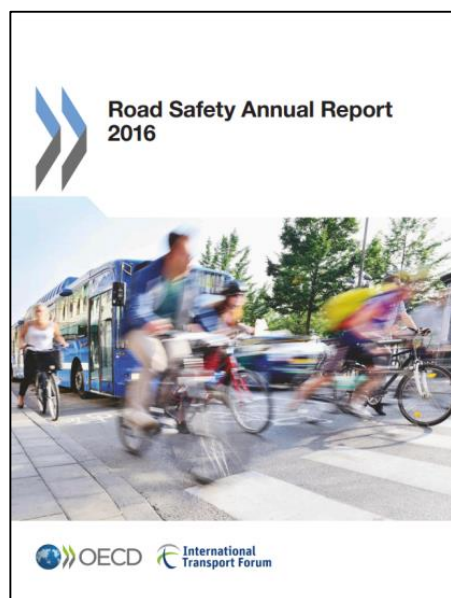




**Working Group - Private Investment in Transport
Infrastructure**

Status - Summary report published June 2018 with 17
secondary reports published in 2019/20
https://www.itf-oecd.org/private-investment-transport-
infrastructure-uncertainty

**Working Group on Policies to Extend the Life of Roads**
Published January 2019.
https://www.itf-oecd.org/sites/default/files/docs/policies-extend-life-road-assets.pdf



**Working Group on Smart Use of Roads**
Workshop held in Tokyo 29-30 October 2018.
Published March 2019.
https://www.itf-oecd.org/sites/default/files/docs/smart-use-roads_1.pdf



**Working Group on the Liberalisation of Air Transport**
Published May 2019.
https://www.itf-oecd.org/sites/default/files/docs/liberalisation_air_transport.pdf
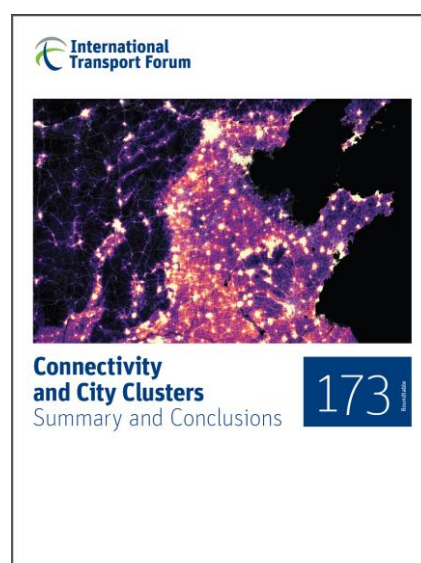
**Previous Work Programme**

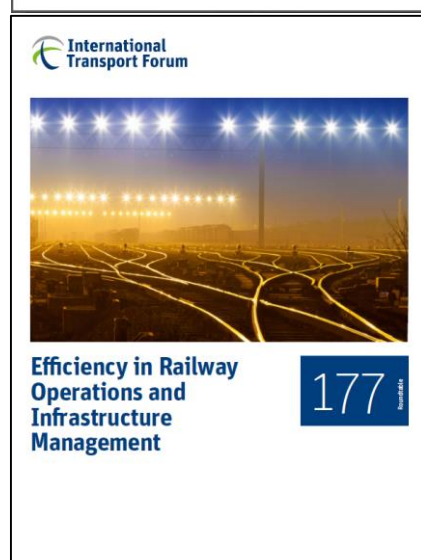**Roundtable - Connectivity and City Clusters**
Published 2019.

Connectivity and City Clusters

**Roundtable on Efficiency in Railway Operations and Infrastructure Management**
Published July 2019

https://www.itf-oecd.org/efficiency-railway-operations-and-infrastructure-management-3

**Working Group on Reforming Public Transport Planning and Delivery**
Published February 2020

https://www.itf-oecd.org/reforming-public-transport-planning-and-delivery