

Transport Infrastructure in Luxembourg: Major Projects and Investments

Presentation of the Luxembourgish investment plan
to improve mobility and infrastructure across borders

Exposé at European Politics in
Transport & Logistics Conference on
transport and mobility

march 8 2019 - Roland Fox - Directeur des Ponts & Chaussées

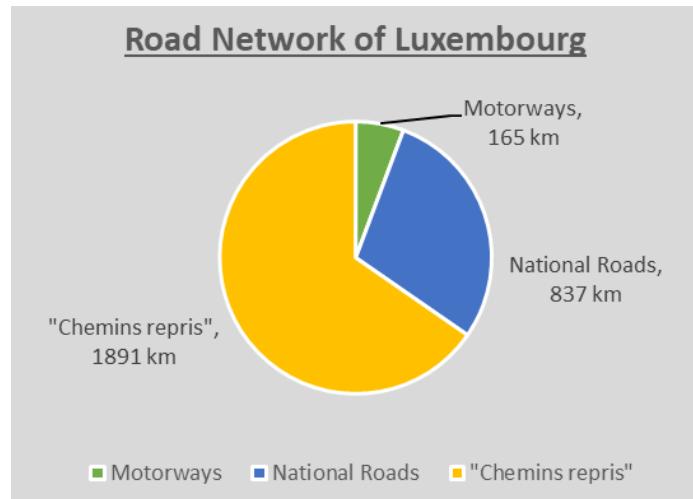


LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de la Mobilité
et des Travaux publics

Administration des ponts et chaussées

Luxembourg's National Road Administration is a public entity placed under the ^{Adm} authority of the ministerial department of public works and the Minister of Mobility and Public Works, Mr François Bausch

... is responsible for the public road network (approximately **2'900 km** of major road networks, national roads and “Chemins repris”),

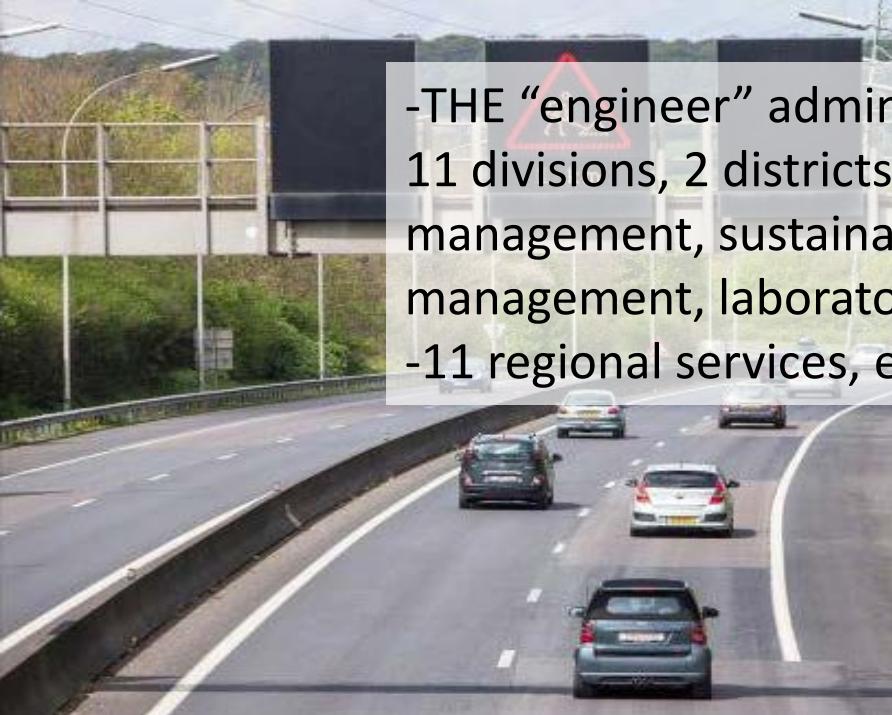


the **cycle path network**, with **600 completed km** and 500 km being planned , 1200 bridges, viaducts and tunnels as part of the road network, the infrastructures for the transports on the navigable channel, the harbor and the airport, the dams in Esch-sur-Sûre and Rosport.

Ponts et Chaussées is in charge of the bus lanes (46 km completed, 40 km planned), the multimodal hubs and park and ride platforms. Currently there are approximately 10'000 parking slots in the planning stage.



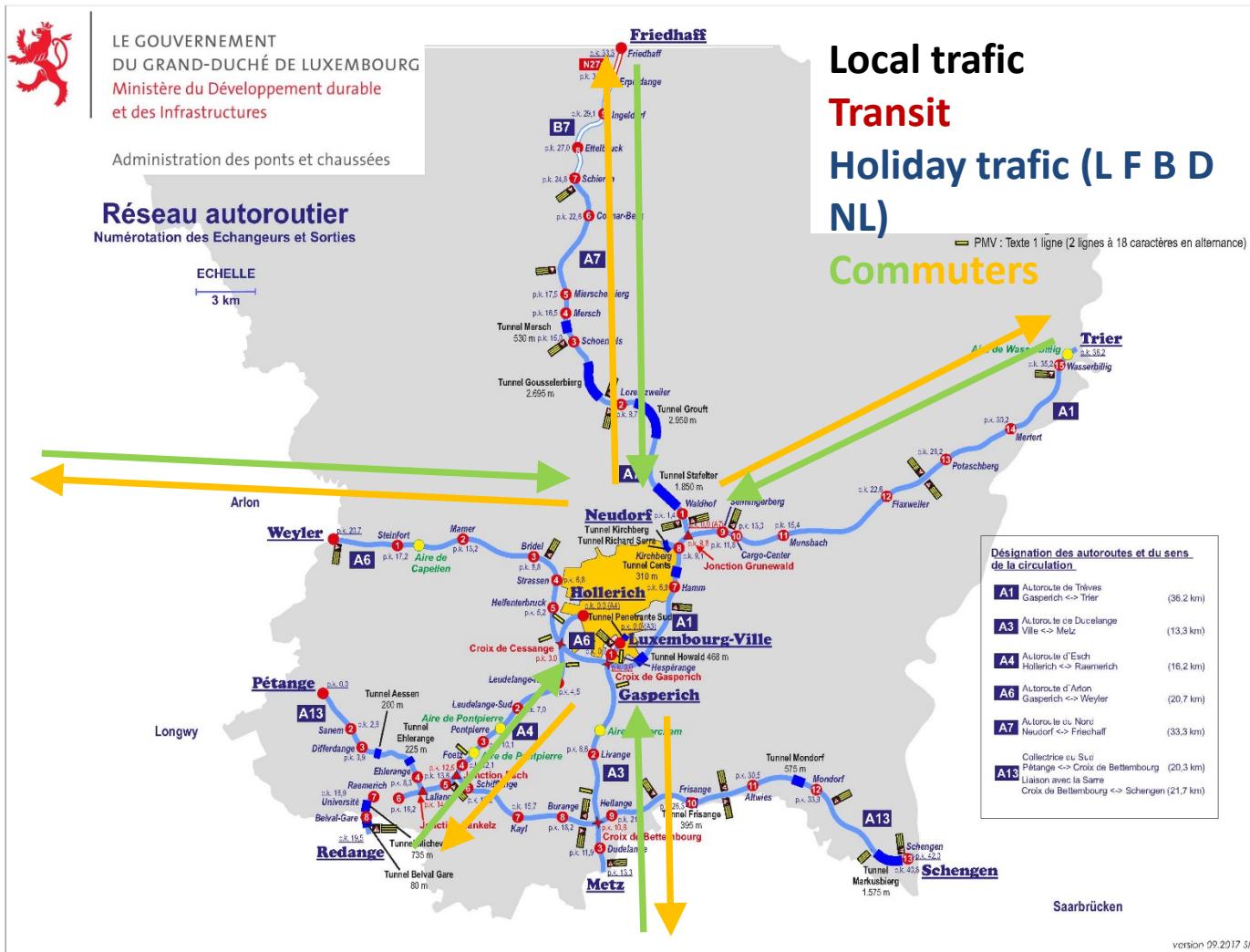
-1200 employees, including 630 roadworkers, 170 roadmenders, approximately 30 engineers (master degree) and 70 technical engineers (bachelor degree)
-Total budget: 400 million €/year



-THE “engineer” administration
11 divisions, 2 districts, new works, engineering structures, traffic management, sustainable mobility, geology, photogrammetry, IT management, laboratories for materials testing and research
-11 regional services, electromechanical service, airport service....



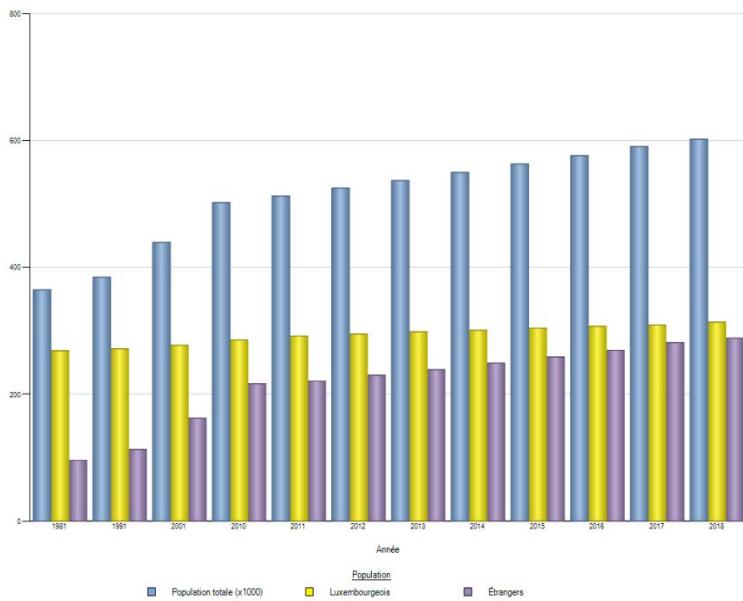
Big Challenges





Challenges for mobility

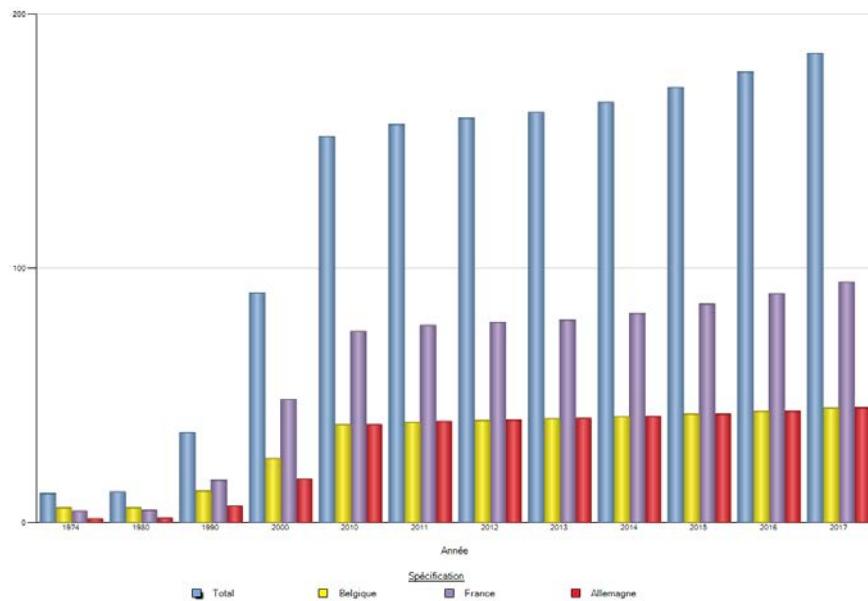
Rapidly growing population
(D,B,F)



2000: 439.000 inhabitants
2018: 602.000 inhabitants

Increase: 37%

Steadily growing numbers of incoming commuters



2000: 87.000 commuters
2018: 177.000 commuters

Increase: 203%

Actual estimations predict a growth up to 270'000 commuters in 2030



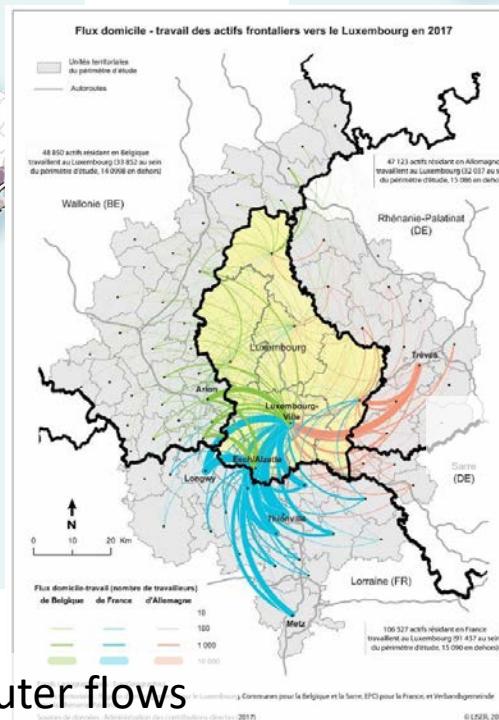
Congestion of road network (2009)

SATURATION DU RÉSEAU
ROUTIER EN 2009

Source : Cellule modèles de transport



Congestion of public transport



General growth needs better transport systems

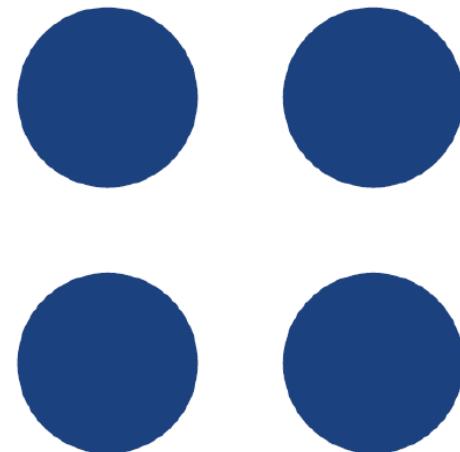
Commuter flows



Strategy

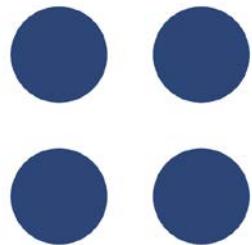
Modu 2.0

Stratégie pour une mobilité durable



Modu 2.0

Stratégie pour une mobilité durable



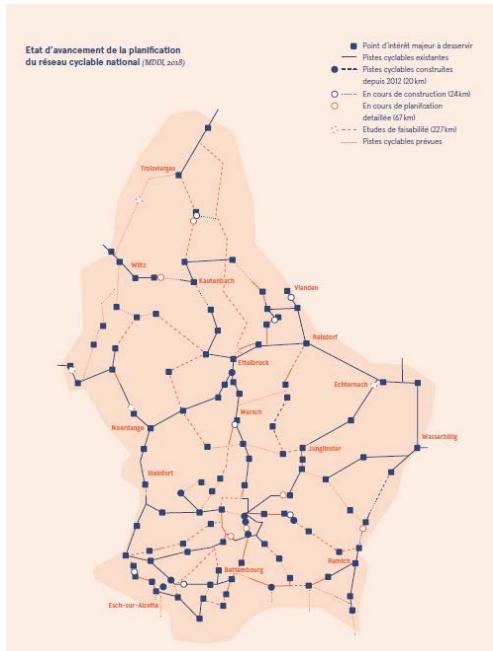
Modu 2.0

Stratégie pour une mobilité durable

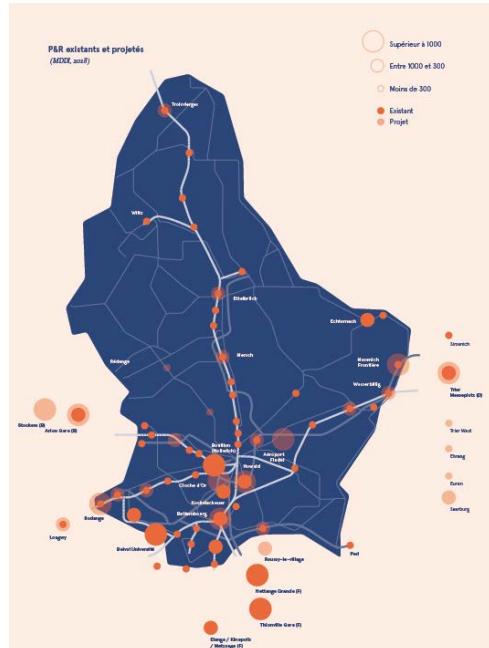
The Modu 2.0 focuses on multi-modality and enhancement of public transport, and on the realization of the 4 pillars of this strategy, which are Tram/Multimodal exchange, Park and Ride, active mobility, road and train projects.

Mobilitéit
zesummen erreechen

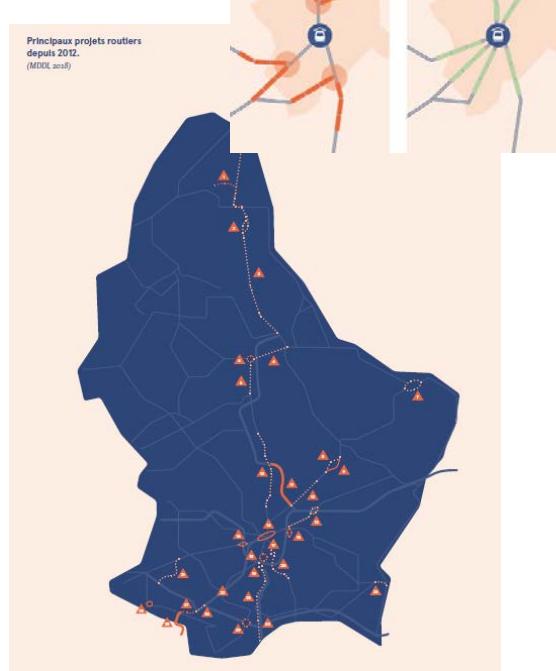
LES MOBILITÉS ACTIVES



LE TRAM ET LES PÔLES D'ÉCHANGE LES PARK AND RIDE (P&R)

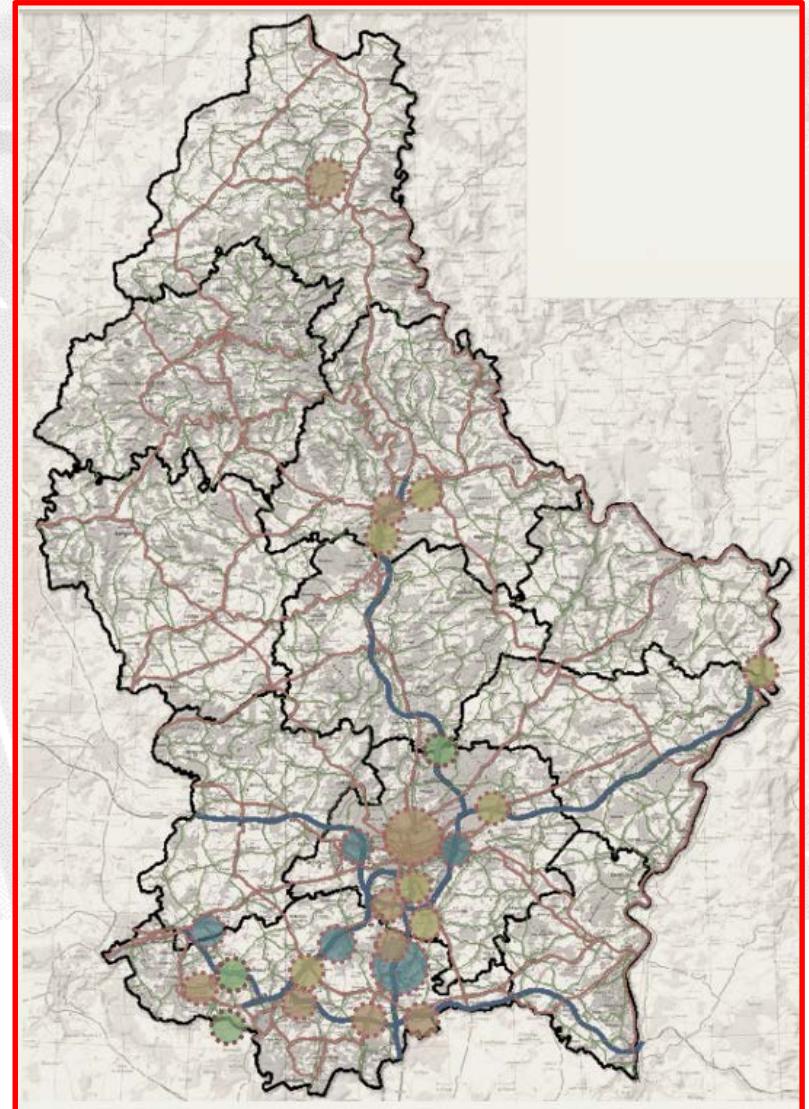


LES PROJETS FERROVIAIRES LES PROJETS ROUTIERS





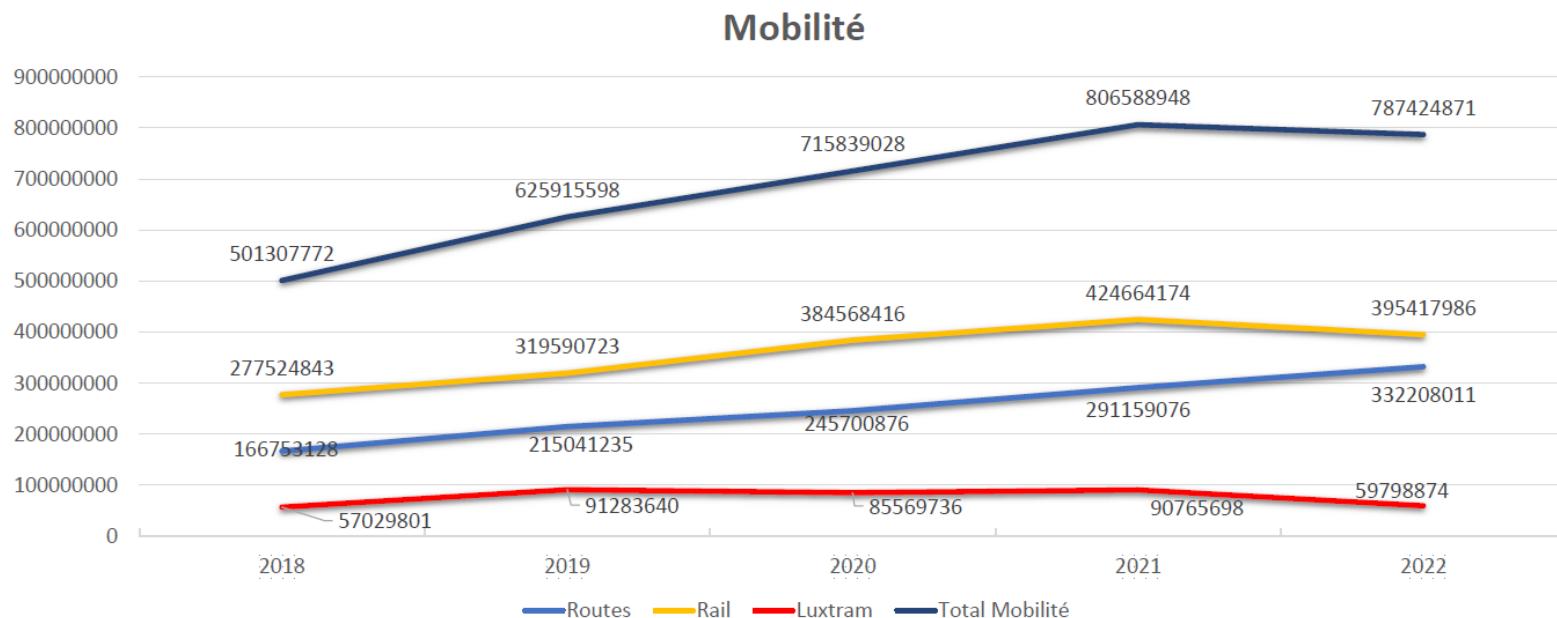
Action plan





Minister Bausch's announcements 2019

Investissements Mobilité 2018-2022



General increase of investments from 500 to 800 MEur/year, road infrastructure from 170 MEur in 2018 to over 330 Mio Eur in 2022



Infrastructure: “Plus et plus vite” - Do more and faster!

Ambition 2019-2023: « Plus et plus vite »

- Mise en œuvre de la mobilité multimodale restera une des grandes priorités des cinq années à venir
 - Identifier les mesures et les infrastructures les plus aptes à améliorer durablement la mobilité dans toutes les régions du pays et des régions frontalières des pays limitrophes
 - Le cas échéant, adapter les planifications en cours afin que toutes les infrastructures contribuent au concept global
- Programme d’investissement ambitieux sera réalisé
- Projets d’infrastructure seront mis en œuvre plus rapidement qu’initialement prévus
- Investissements dans la mobilité seront augmentés de manière considérable

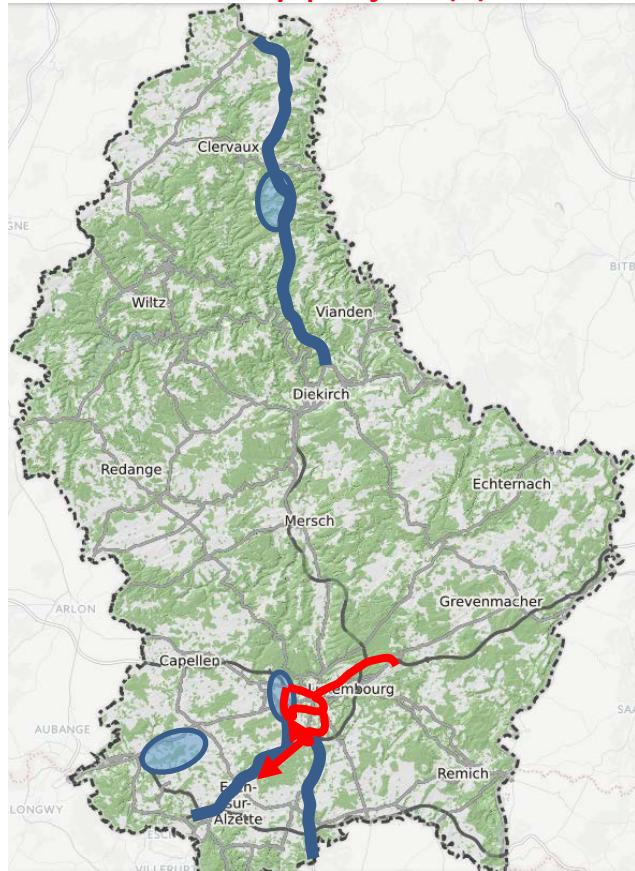
Multi-modality, Durability, Big invests and fast transposition



Priorisation of projects

Phasage des projets prioritaires

Push Tramway project(s) considering further urban developments:



Réseau du tramway:

- Tronçon A place de l'Étoile – Luxexpo en service depuis 07/18
- Réalisation du réseau vers la Cloche d'Or et Höhenhof/Aérogare avant 2023 (tronçons B, C, D et E)
- Place de l'Étoile - boulevard de Merl (projet de loi avant 2023)
- Porte de Hollerich – boulevard de Merl (projet de loi avant 2023)
- Boulevard de Merl (projet de loi avant 2023)

Projets routiers:

- Contournement de Bascharage (début travaux ???)
- Contournement de Hosingen (projet de loi 2020)
- Sécurisation N7 (projet de loi 2020/21)
- Élargissement A3 avec priorisation Bus et Covoiturage (début travaux 2020)
- Boulevard de Merl (projet de loi avant 2023)
- Corridor Bus sur A4 (projet de loi 2021)
- Optimisation A13-A4-A13 (projet de loi 2021)

Push important road projects: Bus corridors, 3rd lane, Securisation, Capacity increase



Implementation





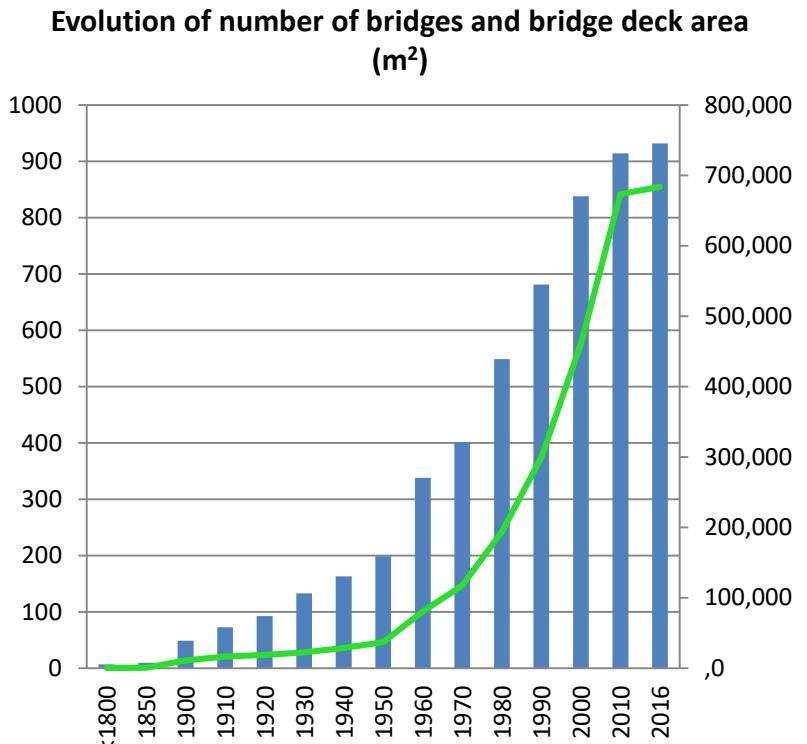
Basics: Maintenance of existing infrastructure is a must

e.g. bridge management: consequent amounts allocated to maintenance of all infrastructures

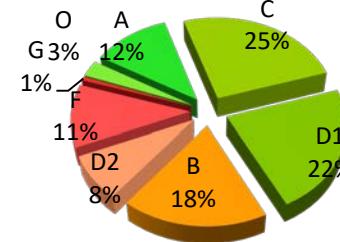
Green – good condition

Orange – acceptable

Red – maintenance needed



Bridge health



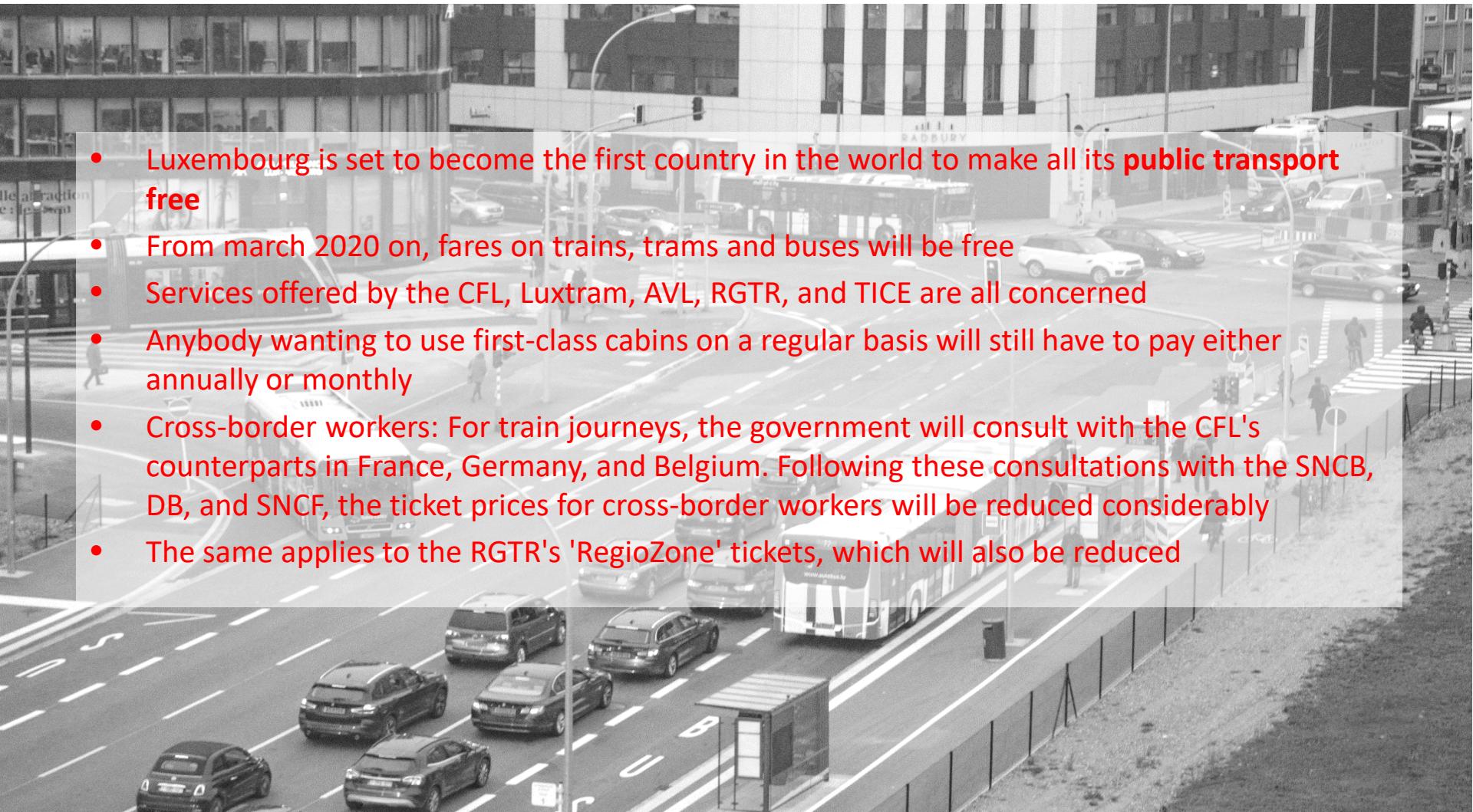
→ **Bridge repair and maintenance program**





Public transport as a basic service

- Luxembourg is set to become the first country in the world to make all its **public transport free**
- From march 2020 on, fares on trains, trams and buses will be free
- Services offered by the CFL, Luxtram, AVL, RGTR, and TICE are all concerned
- Anybody wanting to use first-class cabins on a regular basis will still have to pay either annually or monthly
- Cross-border workers: For train journeys, the government will consult with the CFL's counterparts in France, Germany, and Belgium. Following these consultations with the SNCF, DB, and SNCB, the ticket prices for cross-border workers will be reduced considerably
- The same applies to the RGTR's 'RegioZone' tickets, which will also be reduced



Crossborder cooperation

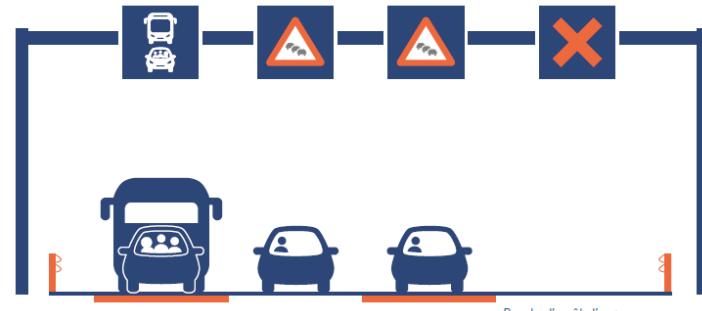
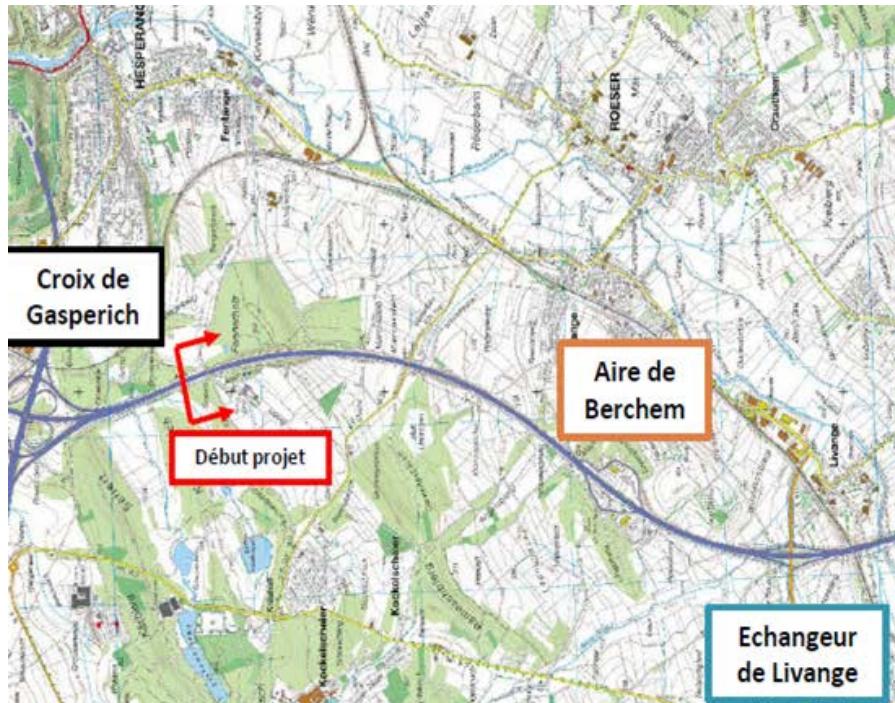
- SMOT: Stratégie de mobilité transfrontalière - Crossborder Mobility Strategies with neighbour regions (Belgium – France – Germany)
- Border cooperation between France and Luxembourg: Protocole d'accord fait à Paris, le 20 mars 2018:
e.g. Railway projects Luxbg-France
Carpooling and public transport project on motorway A31-A3



Contribution by the Grand Duchy of Luxembourg to French developments: max amount of €120,000,000: €110,000,000 is for the railways and €10,000,000 for the promotion of a sustainable mobility policy, with a view to a total contribution of the Luxembourg part equivalent to 50% of the investment costs in France.



Overview: adding a 3rd lane with possibility of Carpooling on stand-lane



Scénario : voie de gauche réservée aux véhicules transportant au moins trois personnes (MDDI)



Total length: ca. 12 km space needed: ca. 100ha

Cross section: 32,50m (existing 24,00m)

Junctions: 2 (éch. de Livange et de Dudelange-centre)

Cross A3/A13: (croix de Bettembourg)

Bridges: 20

Bassins de rétention: 5

Noise protections: 5,3km (longueur existante 2,3km)

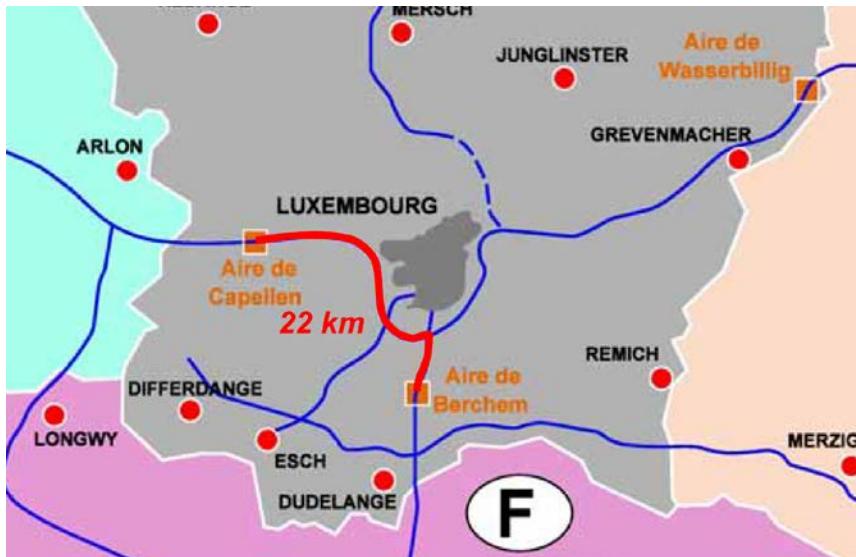
20.000m² (surface existante 6.800m²)

Wildlife bridges: 2

Tender process will start in summer 2019



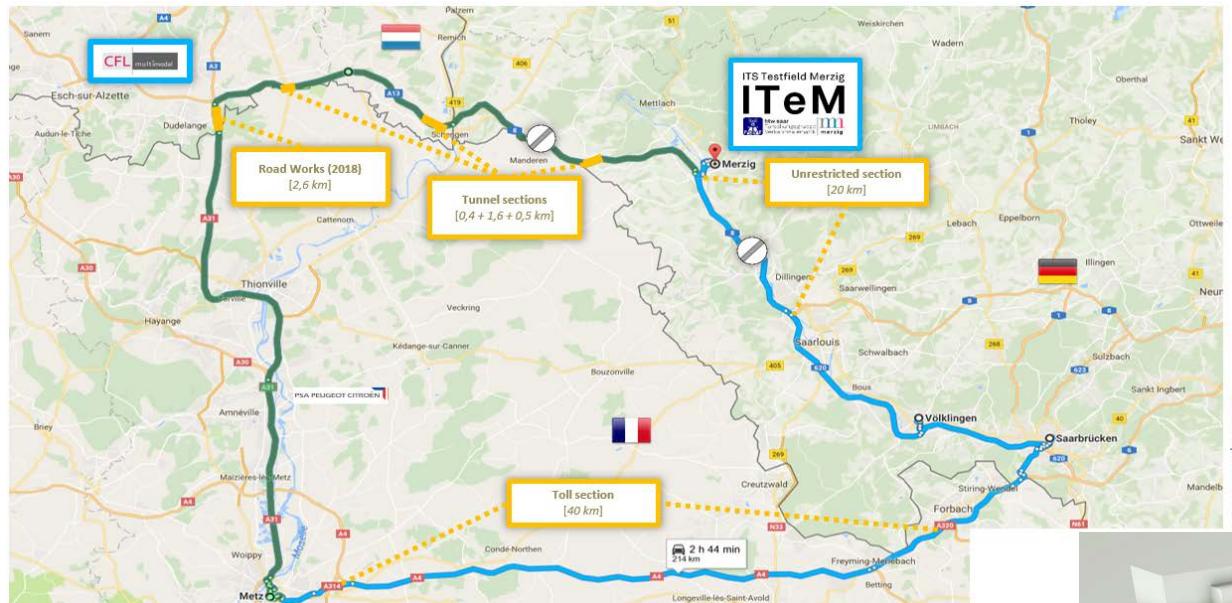
Dynamic/intelligent truck parking on A3



Smart increase of existing parking capacity by reorganization of the surface and installation of technical solution for optimizing rest time and allocation of parking slots

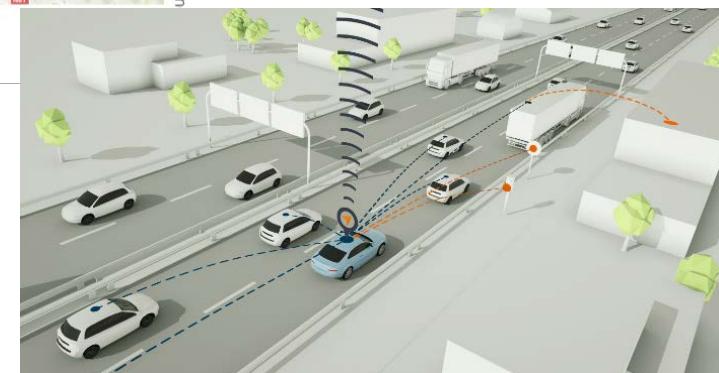


German-Franco-Luxembourgian Digital Test Bed



Crossborder Testbed F-D-L for CAD / connected and automated driving

Official start early April 2019



Source: BMVI



Thank you for your attention!