

Press release

Embargo: 08.04.2019, 9:00

11 Mobility and transport

Costs and funding of transport in 2015

Transport costs have increased by 4% within five years

In 2015, transport in Switzerland generated economic costs of around CHF 90 billion. This was 4% more than in 2010. Aviation (+14%) and rail transport (+12%) recorded the largest increases. In comparison, costs for motorised road transport remained rather stable (+2%) and accounted for four fifths of the total transport costs. None of the various transport user groups fully funded the generated costs themselves. These are the latest figures on the costs and funding of transport from the Federal Statistical Office (FSO).

Motorised transport by land, air and water generated economic costs of a total of CHF 89.7 billion in Switzerland in 2015. This corresponded to approximately CHF 11 000 per capita of the population. Three quarters of the costs were from passenger transport and a quarter from goods transport.

The most expensive mode of transport was the road with a cost share of 80%. This mode of transport did, however, handle the greatest volume of transport by far. The cost shares of rail transport (12%), aviation (7%) and water transport (0.4%) were far lower.

In comparison with 2010, transport costs rose by a total of 4%. There was a sharp increase in aviation (+14%) and in rail transport (+12%), whereas costs for motorised road transport rose only slightly (+2%). Growth drivers in aviation were the increase in passenger numbers (+27%), while in rail transport extensive investments were made.

Comparing all modes of transport, expenditure on means of transport was by far the largest cost item with 59%. The maintenance and expansion of the transport infrastructure accounted for 17% of the total costs in 2015, while transport accidents made up 12% and transport-related damage to the environment and health 13%.

The general public also contributes

The costs are not only paid or borne by the users themselves but also by the state and the general public, i.e. by persons uninvolved in transport who have to suffer from its negative impacts. The road recorded the highest share of user funding at 86%. Nevertheless, the general public faced costs of CHF 8.6 billion through road transport in 2015 – due in particular to accidents and transport-related damage to the environment and health. This meant that the burden imposed by road transport on the general public was almost four times as great as all other modes of transport put together.

1

Rail transport is supported by the state to ensure comprehensive coverage and with the aim of transferring transport flows from the road onto rail. In 2015, at CHF 4.7 billion, the Confederation, cantons and communes assumed almost as much of the costs as the passengers themselves (CHF 5 billion). In five year comparison, the state was, however, able to reduce its funding share by 2 percentage points to 43% which in return led to an increase in user funding to 46%. In aviation, passengers covered 81% of the total cost via ticket prices. The remaining CHF 1.1 billion had to be borne by the general public – mainly resulting from environmental damage.

CHF 26 billion for passenger cars

In 2015, Swiss residents spent CHF 26.1 billion on the purchase, operation and maintenance of passenger cars alone. On average, this corresponded to 46 cents for every vehicle kilometre covered in Switzerland. If the infrastructure costs and accident costs from passenger cars and the transport-related damage to the environment and health are included, the total costs amount to 79 cents per car kilometre. In 2010, this value was 85 cents. The decrease was mainly due to lower accident costs.

Sharp cost increase for vans

In 2015, total costs from goods transport of CHF 20.9 billion were generated, CHF 18.6 billion of which was caused by road transport and CHF 2.2 billion by rail transport. What is noticeable is that transport by light road vehicles – mostly vans – has increased in cost by 18% since 2010, while the costs for heavy goods transport with lorries and road tractors have remained around the same (+1%). This is due to the sharp increase in transport in the delivery van sector.

Low cost transport on the Rhine

The costs for freight shipping on the Rhine were calculated for the first time for 2015. These amounted to CHF 144 million. Due to large tonnages and low infrastructure costs, the kilometre costs of Rhine shipping at 7 cents per freight tonne were far lower than those for transport by rail (17 cents) or heavy road vehicles (55 cents). However, Rhine barges may only be used for transport in the import and export sector.

Road transport creates more climate damage than aviation

Costs for transport-related damage to the environment and health totalled CHF 11.8 billion with motorised road transport accounting for the majority of this at 89% or CHF 9.5 billion. CHF 3.3 billion of this amount was due to air pollutant emissions from road transport, another CHF 2.2 billion due to noise and CHF 1.6 billion due to climate-related costs from greenhouse gas emissions. The climate costs of road transport were thus in absolute figures around twice as high as those from aviation (CHF 0.8 billion). Proportionally, however, climate damage from aviation was far greater (13% compared with 3% in road transport).

Statistics on the costs and funding of transport (CFT)

The statistics on costs and funding of transport (CFT) provide an overview of the economic costs of road, rail, air and shipping transport on Switzerland. In addition to expenditure on infrastructure and means of transport, accident costs and costs for transport-related damage to the environment and health are also considered in the process. The statistics also show who bears the various costs.

The CFT statistics were compiled for the first time for 2010, at the time excluding water transport: these costs are first shown for 2015. Data on motorised road transport, rail transport and aviation are updated annually, those for water transport and human-powered mobility every five years.

The costs of human-powered mobility by foot and bicycle may only be approximately estimated and thus only compared with those of motorised transport with reservation. In addition to difficulties with differentiation, this is mainly due to the high estimated number of accidents not recorded by the police. According to the available data, the total costs of pedestrian transport in 2015 were around CHF 4.7 billion and those of bicycle transport CHF 5.7 billion. Most costs were due to accidents.

In addition to taking water transport into consideration for the first time, several improvements in the methodology were able to be implemented for the reference year 2015. For example, the calculation of the means of transport costs is no longer based on fixed kilometre costs but on specifically developed modelling. Furthermore, a new base value has been used to determine the costs of accident casualties that is derived from a broad meta-analysis from the Organisation for Economic Co-operation and Development (OECD). Due to amendments to the methodology, the values from previous years have partly been recalculated with retrospective effect.

Information

Mobility section, FSO, tel.: +41 58 463 64 68, email: verkehr@bfs.admin.ch FSO Media Service, tel.: +41 58 463 60 13, email: media@bfs.admin.ch

New publication:

Available in German and French:

Kosten und Finanzierung des Verkehrs. Jahr 2015, FSO number: 811-1500, price: CHF 18.20 Coûts et financement des transports. Année 2015, FSO number: 812-1500, price: CHF 18.20

Publication order: tel.: +41 58 463 60 60, email: order@bfs.admin.ch

Online

Further information and publications: www.bfs.admin.ch/news/en/2019-0525

Statistics counts for you: www.statistics-counts.ch

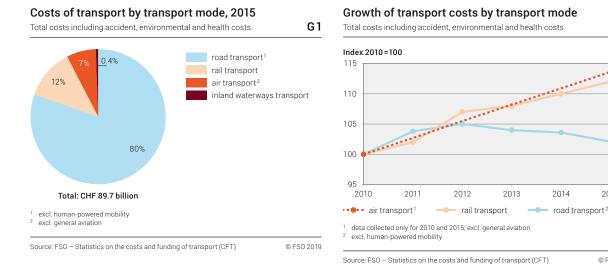
NewsMail subscription in German, French and Italian: www.news-stat.admin.ch

FSO website: www.statistics.admin.ch

Access to results

This press release has been established on the basis of the European Statistics Code of Practice, which ensures the independence, integrity and accountability of national and community statistical offices. Privileged access is supervised and under embargo.

The relevant DETEC offices (ARE, FEDRO, FOT, FOCA) received this press release five working days before the general public. For quality assurance purposes, they were also involved in the development process from time to time.



71 997

75000

accidents

100000

Costs of transport by transport mode and cost category, 2015

Percentage share 13 10 23 0% 20% 40% 60% 80% 100% health and environment

344

CHF million

road transport1

rail transport

air transport 2 inland waterways

transport 0

infrastructure

excl. human-powered mobility ² excl. general aviation

Source: FSO - Statistics on the costs and funding of transport (CFT)

10966

25000

means of transport

© FSO 2019

G4

G2

112.0

102.1

2015

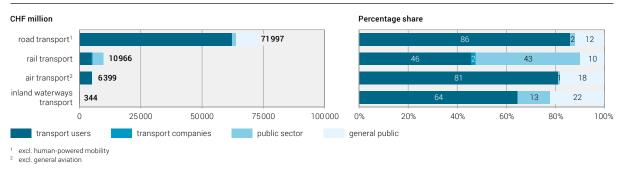
© FSO 2019

G3

2014

Costs of transport by transport mode and final cost bearers, 2015

50000



Source: FSO ${\mathord{\text{--}}}$ Statistics on the costs and funding of transport (CFT)

@ FSO 2019