

Infrastructure

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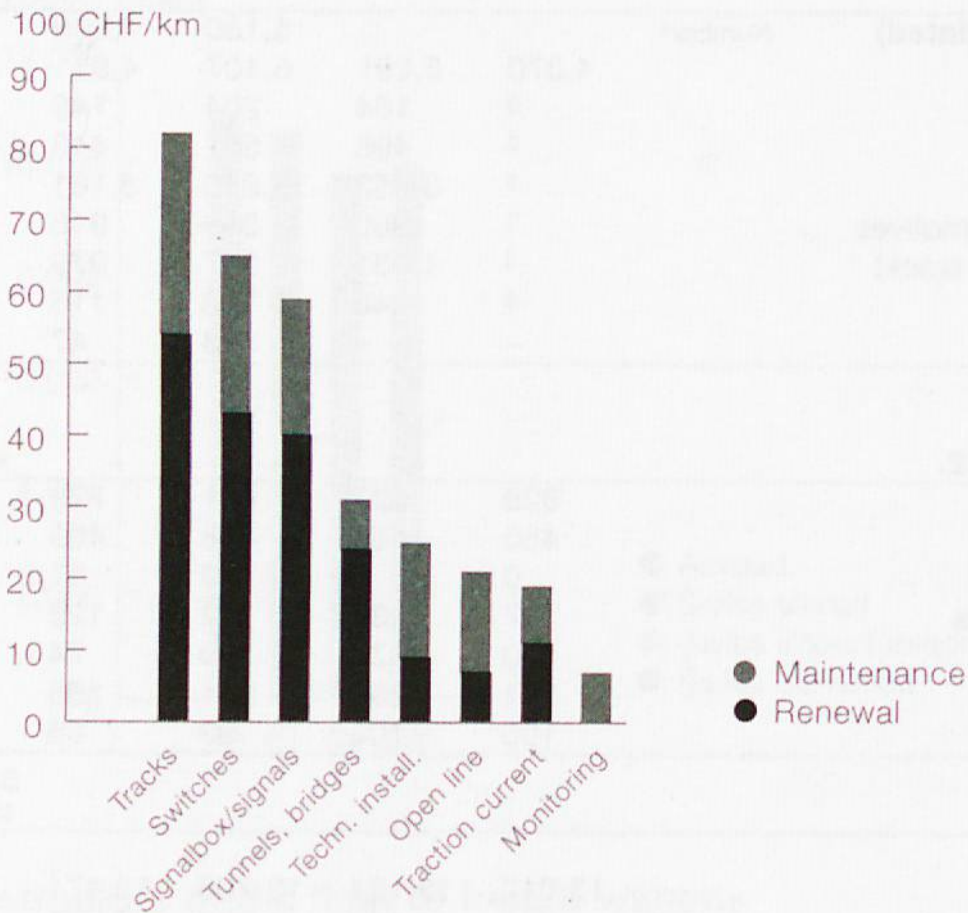
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What an SBB line kilometre costs

Average expenses for maintenance and renewal of the rail infrastructure



Key projects

	Overall costs CHF mn	Start of constr. Year	End of constr. Year	Part under constr. CHF mn	Part completed CHF mn
Network of the future					
Rail 2000, 1 st phase	15,900	1988	2007	3,100	2,300
Seven S-Bahn systems ²	1,594	2002	2007	32	16
"Facelifting" of stations	340	2002	2016	24	41
AlpTransit Gotthard	19,233	1996	2014	1,554	0
Rail 2000 2 nd phase	5,900	2011	2022	0	0
New technologies					
Automation of signalboxes	1,700	2002	2010	670	100
European Train Control System ETCS	830	2005	2017	0	0
Global System Mobile for Railways GSM-R	375	2003	2008	20	0

1 Forecast of end costs.

2 1st phase, without link Genève–Eaux-Vives–Annemasse and without second through station Zürich HB.

Financial matters¹

		2000	2001	2002	2003	03-02 ± %
Operating revenues	CHF mn	3,041.1	3,092.9	3,105.0	2,954.1	-4.9
-Use of infrastructure		668.5	616.0	540.9	540.2	-0.1
Operating expenses		2,854.3	2,902.7	3,023.6	3,065.9	1.4
Operating result		186.8	190.2	81.4	-111.8	-237.4
EBIT		227.3	184.4	143.7	-69.9	-148.6
Annual profit		986.9	1 019.7	1 100.3	850.3	-22.7
Gross investments		1,565.0	1,767.2	1,936.5	1,674.8	-13.5

Operating performance

		2000	2001	2002	2003	03-02 ± %
Normal gauge	mn trkm	130.8	132.9	135.5	138.0	0.8
SBB		...	129.4	131.1	133.2	0.6
- Passenger trains		...	96.5	99.0	102.9	0.7
- Freight trains		...	30.3	28.9	28.4	-1.6
- Service trains		...	2.6	3.2	1.9	-5.6
Third parties		...	3.5	4.4	4.8	2.3
- Passenger trains		...	2.7	3.1	2.9	-7.8
- Freight trains		...	0.7	1.2	1.9	2.3
- Service trains		...	0.1	0.1	0.1	...
Narrow gauge		1.5	1.6	1.6	1.6	0.8
SBB		...	1.4	1.4	1.4	0.6
- Passenger trains		...	1.3	1.3	1.3	0.7
- Freight trains		...	0.1	0.1	0.1	-1.6
- Service trains		...	0.0	0.0	0.0	-5.6
Third parties		...	0.2	0.2	0.2	2.3
- Passenger trains		...	0.2	0.2	0.2	2.3
- Freight trains		...	0.0	0.0	0.0	...
- Service trains		...	0.0	0.0	0.0	...

Productivity

		2000	2001	2002	2003	03-02 ± %
Train path revenues per line-km	CHF mn	0.22	0.21	0.18	0.18	-3.3
Train path revenues per train path km	CHF	5.05	4.58	3.94	3.87	-1.9
Operating grant per train path km		4.44	3.60	3.61	3.33	-7.9
Share of train path revenues in operating expenses	%	23.4	21.2	17.9	17.6	-1.5

¹ Segment account. Intra-group revenues and expenses not eliminated.

Power generation

		2000	2001	2002	2003	03-02 ± %
Total produced and used	GWh	4,684	4,337	3,465	3,951	14.0
Use for train traction ex substation	GWh	2,004	2,057	2,069	2,080	0.54
- from renewable sources of energy	%	99.8	96.9	87.2	88.6	1.6
- SBB network		1,821	1,871	1,878	1,898	1.06
- Other networks		183	186	191	182	-4.48
Specific energy use of SBB	kWh/pkm					
- Passenger traffic	kWh/tkm	0.090	0.106	0.094		-100.0
- Freight traffic		0.079	0.079	0.073		-100.0

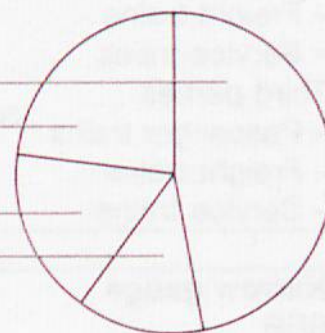
Source

Own and co-owned power plants¹ 47%

Purchased 23%

Partner plants² 17%

Purchased in exchange 13%



Use

SBB train operation 48%

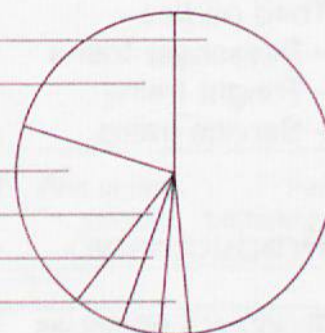
Sale of electricity 21%

Delivered in exchange, pump operation 19%

Other railways 5%

Own use, losses 4%

Supply of SBB stations 3%



1 Amsteg, Ritom, Vernayaz, Châtelard-Barberine, Massaboden, Trient, Etzel, Göschenen, Wassen, Ruppertswil-Auenstein.

2 AKEB.

Workforce, fixed installations, stations, rolling stock

		2000	2001	2002	2003	03-02 ± %
Personnel						
Workforce (consolidated)	Number ¹			10,271	9,478	-7.7
SBB AG, Infrastructure div.		10,166	10,247	10,256	9,469	-7.7
Central offices		2	1,317	1,683	1,688	0.3
Sales		2	31	18	5	-72.2
Production		2	4,327	4,153	3,594	-13.5
Maintenance		2	4,405	4,180	3,985	-4.7
Other		2	167	222	197	-11.3
Subsidiaries		-	-	15	9	-40.0
Fixed installations						
						± 03-02
Operated lines	km	2,973	2,986	2,982	3,080	98
- not electrified		17	17	17	0	-17
- for freight traffic only		95	94	89	70	-19
- Narrow gauge		74	74	74	74	0
Own lines		3,000	3,008	3,003	2,982	-21
- Single-track lines		1,390	1,394	1,389	1,356	-33
Length of tracks overall		7,364	7,377	7,372	7,224	-148
Level crossings						
	Number	1,503	1,447	1,388	1,395	7
- Protected by technical means		766	762	754	834	80
- For private use		533	494	464	431	-33
- For pedestrians only		233	220	208	201	-7
Switches		14,850	14,575	14,300	14,202	-98
Signals for train runs			25,250	26,860	28,408	1,548
Tunnels		294	296	298	304	6
- Length	km	228	230	231	243	11.4
Railway bridges	Number	5,768	5,858	5,898	5,982	84
- Length	km	89	89	89	89	0.5
SBB stations, big and small						
	Number	790	792	809	842	33
- For passenger traffic ²		729	734	737	765	28
- For freight traffic		473	475	475	459	-16
Mean distance between passenger stations	km	3.95	3.94	3.92	3.93	0.01
Rolling stock						
	Number	4,324	4,063	3,817	3,676	-141
Traction vehicles		520	505	513	480	-33
- Diesel powered		501	486	494	461	-33
Service cars and wagons		3,804	3,558	3,304	3,196	-108

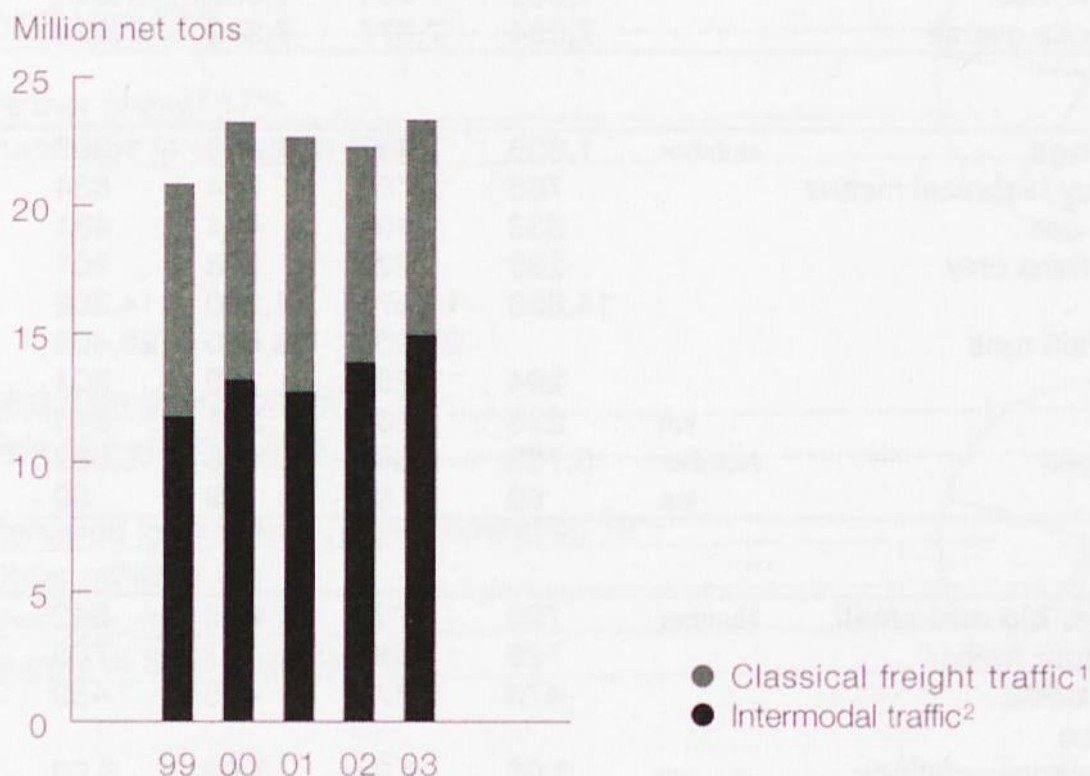
1 Workforce, yearly average, expressed in full-time jobs.

2 Stopping places on the network, including STB and Thurbo.

Transalpine railfreight traffic

		2000	2001	2002	2003	03-02 ± %
in net tons						
Gotthard	mn t	20.4	19.0	17.4	17.3	-0.3
Classical freight traffic ¹		6.9	6.8	6.0	5.8	-4.0
Intermodal ²		13.5	12.2	11.4	11.6	1.6
Simplon		3.8	4.6	5.8	7.0	20.9
Classical freight traffic ¹		3.6	3.6	2.8	3.1	8.9
Intermodal traffic ²		0.2	1.0	3.0	4.0	32.0
Total		24.2	23.6	23.2	24.4	5.0
Classical freight traffic ¹		10.5	10.4	8.8	8.8	0.1
Intermodal traffic ²		13.7	13.2	14.4	15.5	7.9

Transalpine railfreight traffic



1 Weight of the payload (net weight) without tare weight of the wagons.

2 Net tons, including the weight of the containers and road vehicles transported also.

Statistics of intermodal traffic that eliminate the weight of the loading equipment (containers, swap bodies, semi-trailers) and road lorries, and which list accompanied and unaccompanied transports separately, are maintained by the Federal Office for Spatial Development (ARE). They can be ordered under tel. 031 322 40 60, Fax 031 322 78 69, or viewed in the Internet: <http://www.are.admin.ch/are/de/verkehr/alpinfo/index.html>