

Swiss Tropical and Public Health Institute Schweizerisches Tropen- und Public Health-Institut Institut Tropical et de Santé Publique Suisse

Associated Institute of the University of Basel





Health in all policies in a changing environment: Using health impact assessment to support policies

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> Dialogue event Hanoi, Vietnam 24th – 25th March 2015



Outline

Introduction: Health Impact Assessment in the context of policy-making

Failed governance: preventing from smoke exposure in Switzerland

The co-benefits of a HiAP thinking approach in climate change policies

□ HiAP in the context of a changing environment: what would it take?



Health in All Policies (HiAP)

- integrate health considerations into policies concerning sectors other than health
- ensure all sectors and levels of government are more accountable for policy decisions affecting health and health systems
- generate and facilitate intersectoral action for health and solutions for improved health impacts

Health Impact Assessment (HIA)

- provide information and evidence from a health policy perspective
- improve the mechanisms and tools for taking account health implications
- analyze how policies and interventions are linked to impacts on health determinants
- inform the policy-makers working in and across all

sectors





Forces governing tobacco use and health consequences









Smoke protection in Switzerland-Peculiarity 3 World Health Organization Tobacco Control Score (2010)

ltem	Max score	CH-2010 (58/100)	Target
Price of cigarettes and tobacco products	30	15	Structural
Smoke-free work and public places	22	11	Structural
Spending on public information campaigns	15	9	Structural
Comprehensive bans on advertising and promotion	13	2	Structural
Large direct health warning labels	10	5	Structural
Pictorial health warnings	3		Structural
Treatment to help dependent smokers stop	10	6	Behavourial
Network of smoking cessation support and its reimbursement	4		Behavioural
Reimbursement of medications	2		Structural



Smoke-free laws in Switzerland (Peculiarity 1)





Smoke-free laws in Switzerland: Peculiarity 2





Smoking prevalence in Switzerland in last decade

Smoking prevalence differentiated by sex between 2001-2010 14- to 65-year-olds



number of people in %

3/26/2015



Report in 2014: New estimates for the external costs of traffic for Switzerland in 2010 Bundesamt für Raumentwicklung

Schweizerische Eidgenossenschaft

Confédération suisse Confederazione Svizzera Confederaziun svizra

Bundesamt für Raumentwicklung ARE Office fédéral du développement territorial ARE Ufficio federale dello sviluppo territoriale ARE Uffizi federal da svilup dal territori ARE

Externe Kosten und Nutzen des Verkehrs in der Schweiz

Strassen-, Schienen-, Luft- und Schiffsverkehr 2010 und Entwicklungen seit 2005

Years of life lost and attributable morbidity cases due to transportation noise and air pollution: a comparative risk assessment for Switzerland in 2010. Danielle Vienneau,^{1,2,*†} Laura Perez,^{1,2†} Christian Schindler,^{1,2} Nicole Probst-Hensch,^{1,2} Nino Künzli,^{1,2} Martin Röösli^{1,2.} In revision



Which area of costs

- Health impacts of air pollution
- Health impacts of noise
- Building damages due to air pollution
- Agricultural damages due to air pollution
- Forest damages due to air pollution
- Loss of biodiversity due to air pollution
- Climate change
- Loss of nature and landscape
- Damages of soil due to toxic pollutants
- Upstream and downstream processes due to climate change and air pollution (i.e. maintenance vehicles)
- Accidents
- Additional costs in urban areas



Total traffic related external costs (CHF millions)

40 billions Vietnamese Dong \

CHF millions	Road transport		Rail	Air	Water-	Total	
	Priv. mot. PT and FT	Non-mot. transport	Public transport	transport	transport	borne transport	
Air-related health	1'444	-	60	185	37	29	1'756
Air-related building	297	-	12	38	8	6	362
Air-related crop shortfall	52	-	4	1	2	1	59
Air-related forest degradation	45	-	3	1	1	1	51
Air-related biodiversity loss	134	-	7	2	3	3	148
Noise	1'427	-	37	269	66	-	1'799
Climate change	1'234	-	26	4	686	8	1'959
Nature and the landscape	750	10	10	119	6	5	900
Soil degradation	113	-	5	24	-	-	142
Upstream and downstream processes	704	34	20	48	108	3	917
Accidents	980	856	7	4	2	0	1'850
Urban areas	109	-	3	32	-	-	144
Deduction of HVF share	-720	-	-	-	-	-	-720
Total	6'570	900	194	727	919	57	9'367
Health bens - non-mot. transport	-	-1'281	-	-	-	-	-1'281



Key Elements of HiAP

- □ Health, equity, and sustainability
- Co-benefits
- Intersectoral collaboration
- □ Create structural or procedural change
- Engage community & stakeholders





录 **urgenche**

Urban Reduction of Greenhouse Gas **E**missions in **Ch**ina and **E**urope

7 contexts that influence consequences for health and wellbeing of climate change mitigation Diabque Event Hannistin



Policy context in Basel

- □ At least 80% of energy production from the Canton's own, renewable resources.
- □ No participation in large-scale power stations (atomic, coal or gas).
- □ At present, 100% of electricity is from the Canton's own, renewable sources.
- Several incentive programs for private and business for energy saving

GHG emission targets in Basel

CO2- emissionen BS/BL in tons/ year





GHG emission targets in Basel

NOx emissions in tons/year





Transport policies in Basel

Air pollution regulation department Energy department Transport department

HEALTH?

traffic in urban roads by 10% by 2020



Health Impact Model for Basel



20



Change						
Outcome	ten 2		% change			
	and a state of the	AND A DESCRIPTION OF	from reference			
PM2.5 morta	and plan in		-3.3%			
	di		-3.4%			
Strate Reserve		1	-3.3%			
	38 . E		-3.4%			
Lden IHD m	and the		0.1%			
		1220	0.0%			
	1 PT	Contraint	-0.1%			
	p50	0.2	0.0%			
Biking and walking (≥20 years)	Z9	-61.43	-1.7%			
1% shift to active commuting / Perez et al. In revision						



Cause analysis in a changing environment Example of obese/diabetes





Cause analysis in a changing environment Example of obese/diabetes





Conclusions

- HIA to identify most efficient intersectoral actions
- HIA to transparently assess consequences for health of future decisions (or no decisions)
- HIA to enable establishing common information system with sector-specific data
- Decisions on economic policy have large health impacts. Health for economic competitiveness should be made visible
- HiAP: use already identified priority public health issues (i.e: air pollution and diabetes in the Vietnam context?)



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Thank you for your attention

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