



TECHNISCHE
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How to quantify regional weighting factors?

Methodology and case study from Vienna.

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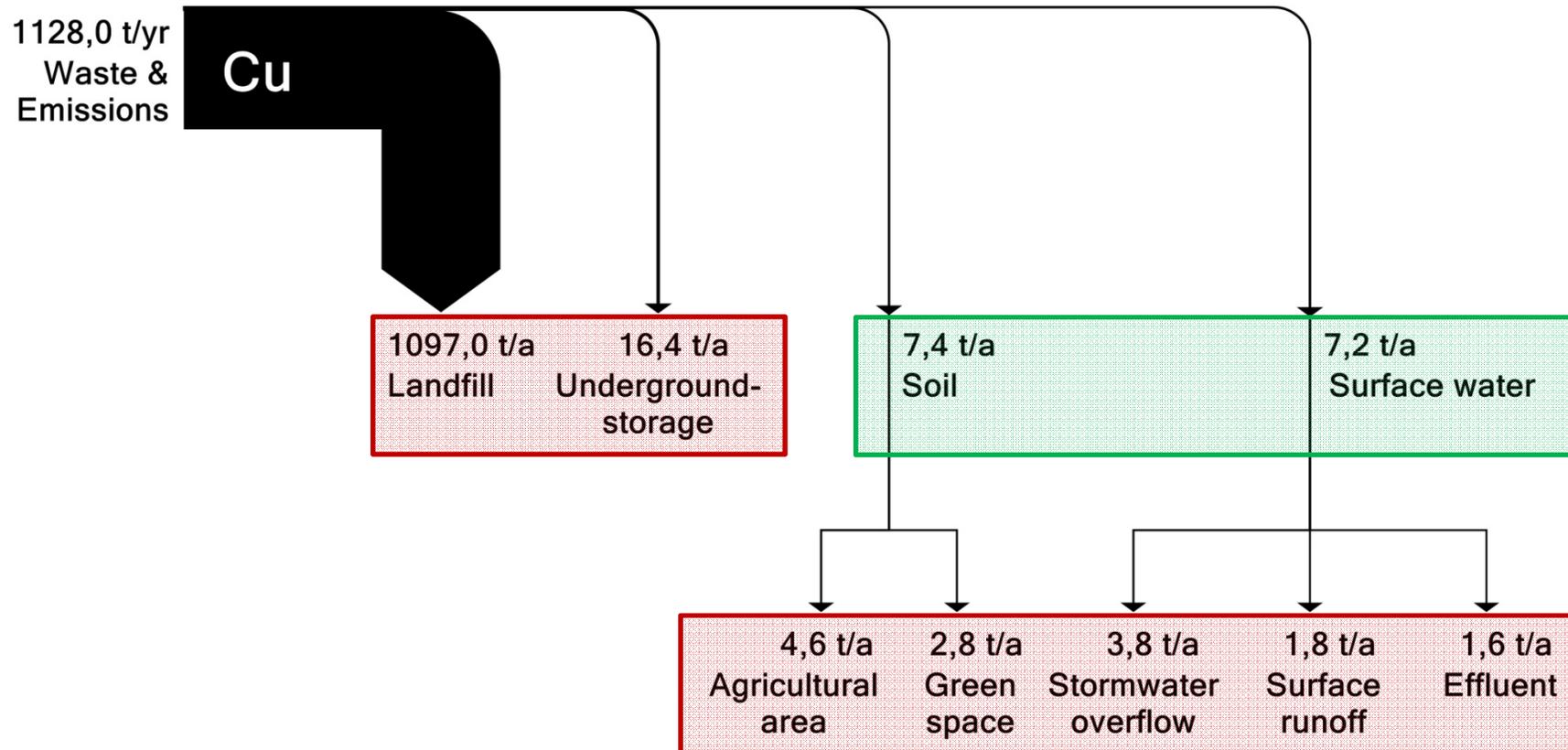
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54th LCA Discussion Forum:
Ecological Scarcity 2013 – New Features and its Application in Industry.
5th December 2013. UVEK Aula, Ittigen-Berne, Switzerland.

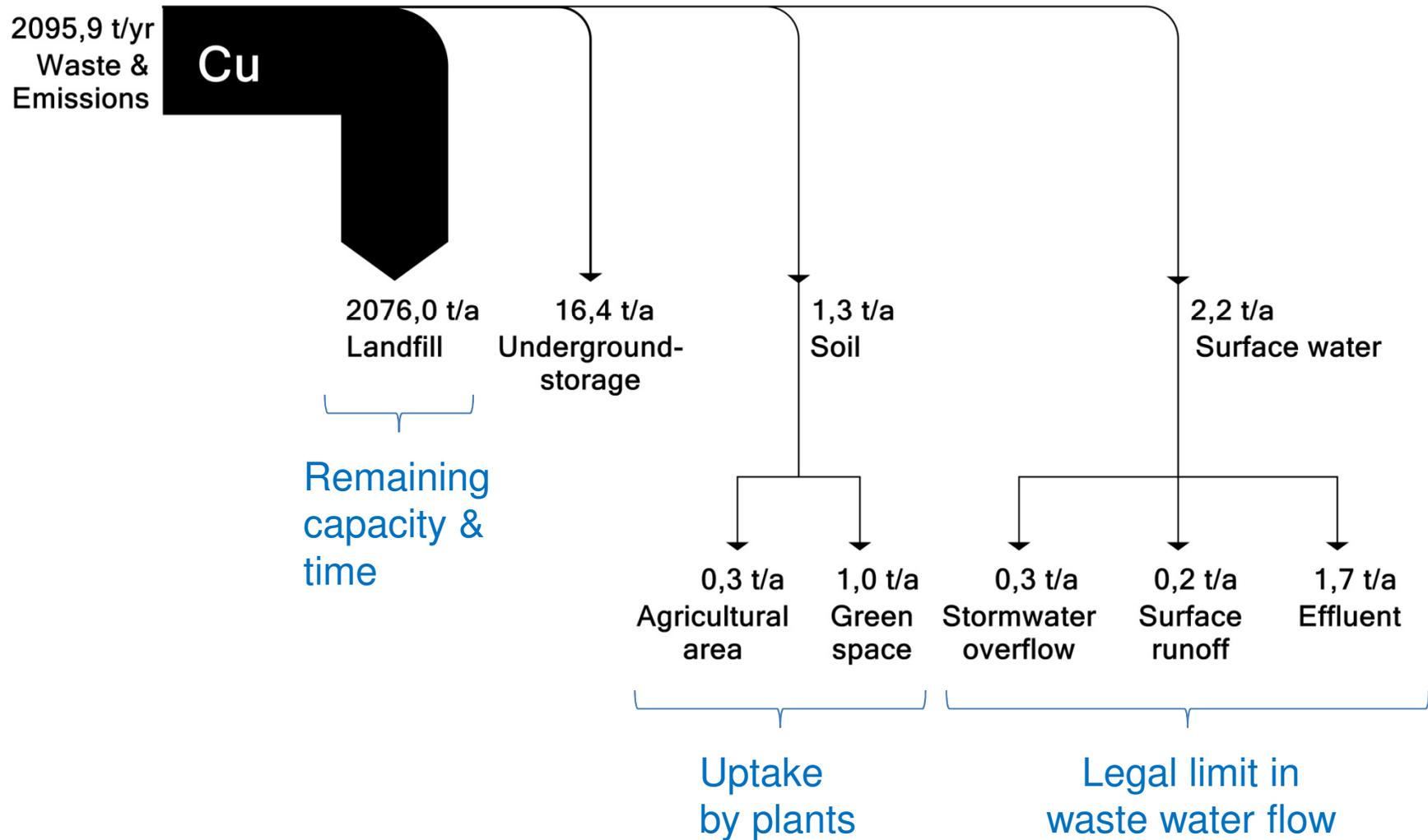
**... current & critical flows
vary in a cross-regional perspective.**



Current flows in Vienna



Critical flows in Vienna

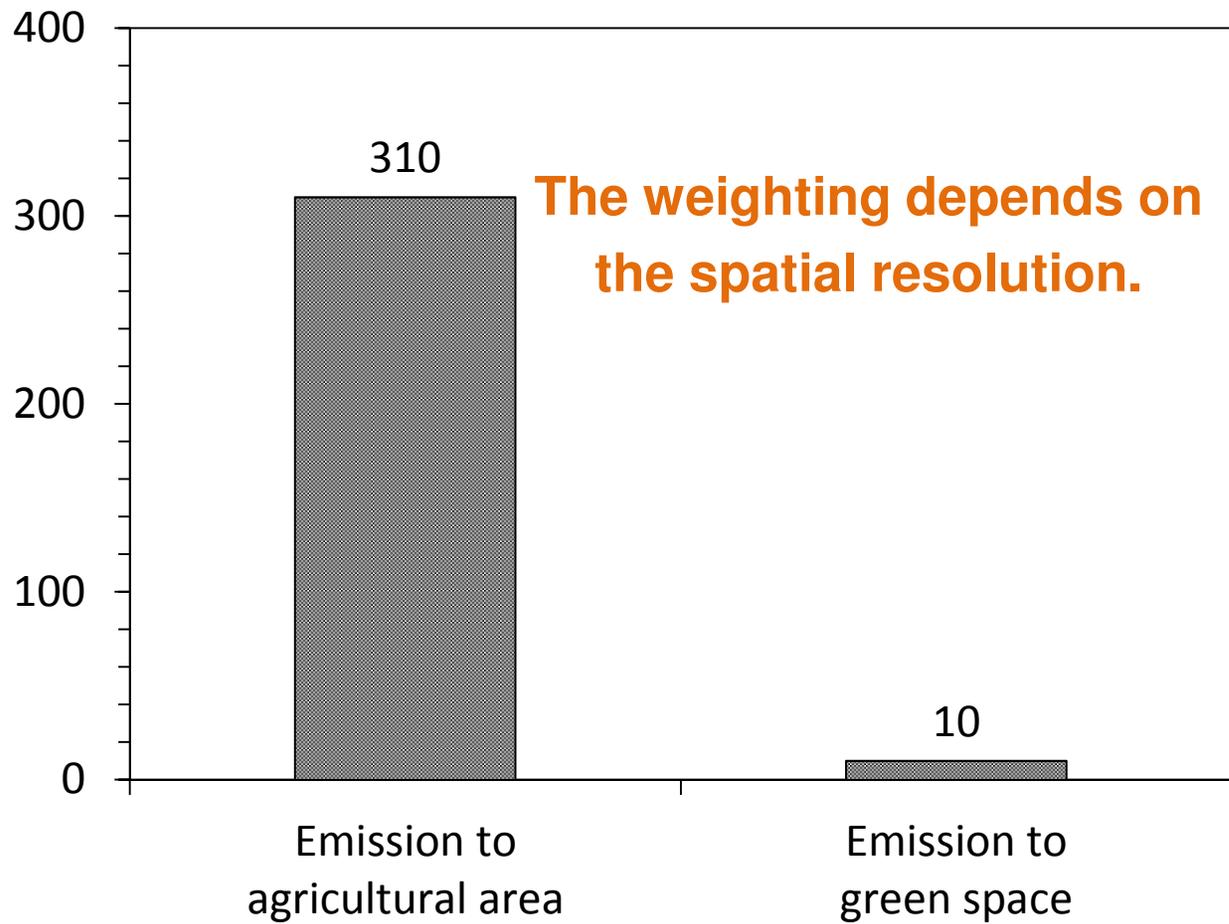


Weighting factors

Cu	Switzerland	vs.	Vienna
Emission to soil	2	vs.	40
Emission to surface water	1	vs.	10
Waste to landfill	-	vs.	0.3
Waste to underground st.	-	vs.	1

**The weighting
depends on
the reference region.**

Weighting factors

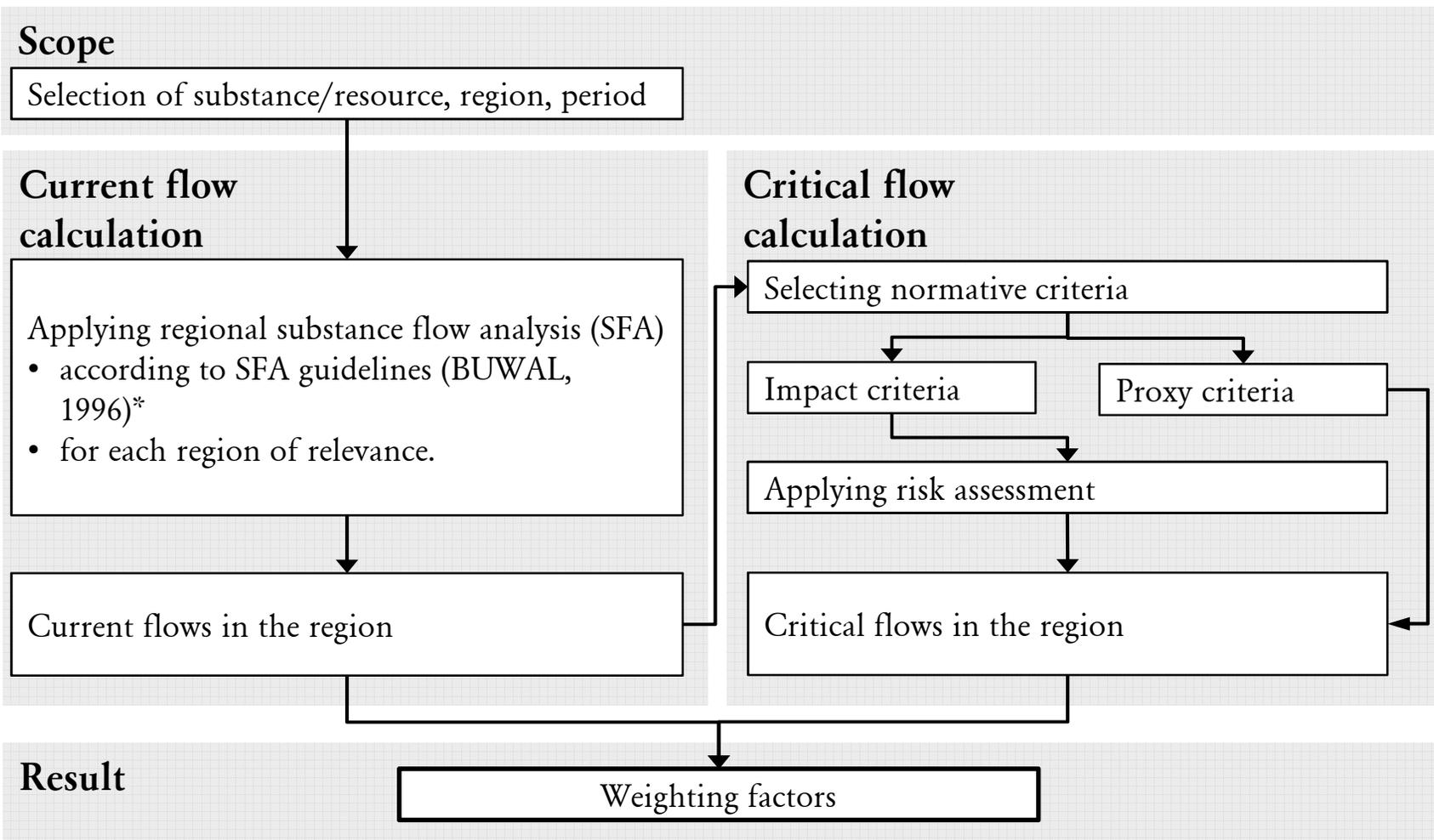


- **Weighting factors vary in a cross-regional perspective.**
- **The weighting depends on:**
 - **the reference region.**
 - **spatial resolution within the region.**
- **Region-specific circumstances -> Region-specific impacts.**
- **Harmonized framework for regional weighting factors.**

Appendix

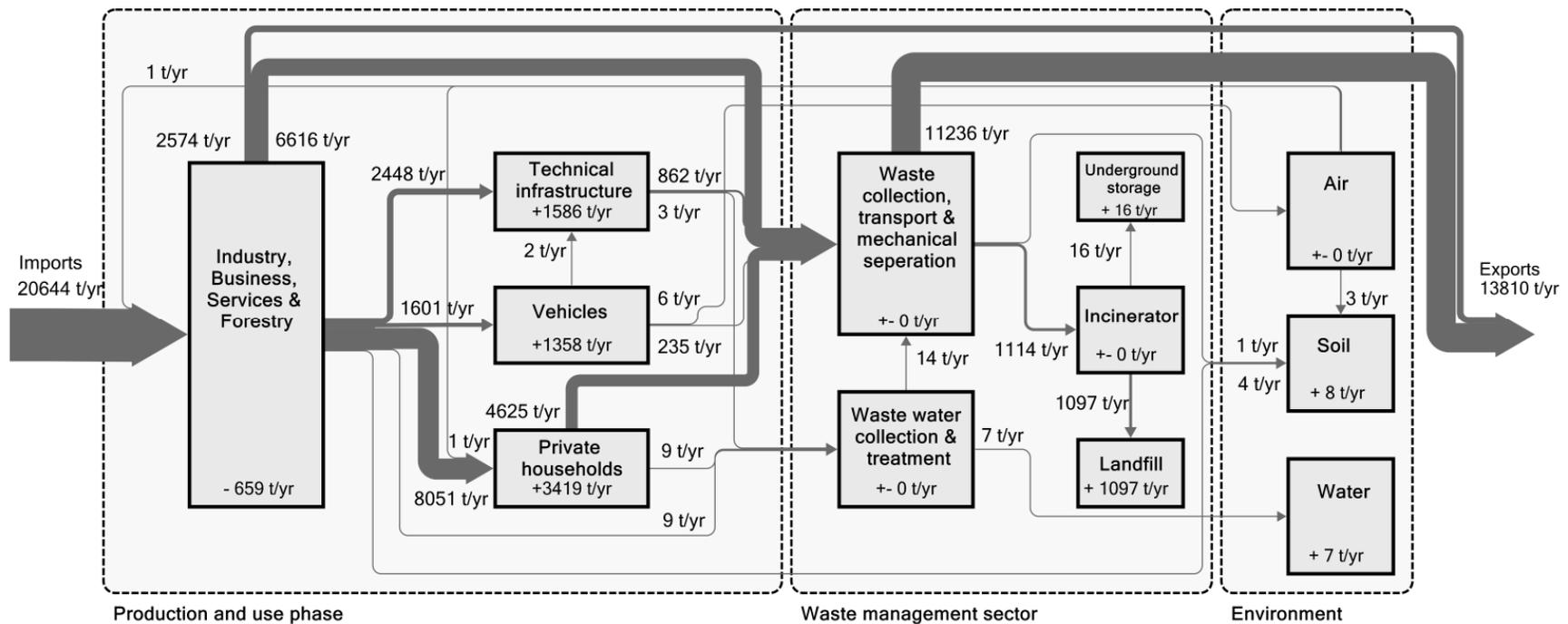
**(out of the regular time for presentation;
for discussion in view of the harmonized framework)**

... the regionalization of weighting-factors.



* BUWAL, 1996. Stoffflussanalyse Schweiz - Anleitung. *Umweltschriftenreihe Umwelt Nr. 251*. Bern: Bundesamt für Umwelt, Wald und Landschaft.

... based on regional substance flow analysis.



... based on proxy criteria or impact criteria.

