Intep – Integrale Planung GmbH

Standard for Sustainable Construction in Switzerland: Experiences and Perspectives

57th LCA Discussion Forum

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Overview

Topic

Network for Sustainable Construction Switzerland NNBS

Standard for Sustainable Construction Switzerland SNBS

Experiences and Perspectives

Questions



Netzwerk Nachhaltiges Bauen Schweiz Réseau Construction durable Suisse Network Costruzione Sostenibile Svizzera Sustainable Construction Network Switzerland

Bildung

Normen

pfehlungen,

Sustainable Construction Network Switzerland

Studien

Gesetz

Visionen

Labels

lotprojekte

Beratung

Standards

Forse

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Sustainable Construction Network Switzerland

- → The network builds a key part of the fourth national sustainable development strategy
- → National competence center since 2012
- → Platform covering most regions in Switzerland, French as well as German speaking areas
- → Supported by public authority, governments and industry partners

Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra SCHWEIZERISCHER BUNDESRAT

STRATEGIE NACHHALTIGE ENTWICKLUNG 2012–2015

Strategy of Sustainable Development 2012 - 2015

Founding Members of NNBS



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Mission of the Network

We are convinced that more sustainable Buildings:

- \rightarrow result in higher and robust market values
- \rightarrow serve the society on the long term due to higher ecological and economical value.

We are aiming towards a leading role in the discussion on sustainable construction in Switzerland by

- → networking, coordinating and cooperating in order to get positive synergy effects in the building and construction sector.
- \rightarrow serving all players in the field with the necessary tools, know-how, guidance and instruments.
- ightarrow exchanging knowledge and findings internationally

Spirit of NNBS

- ightarrow Defining basic and a common terminology
- ightarrow Coordinating existing activities
- ightarrow Developing missing and new parts







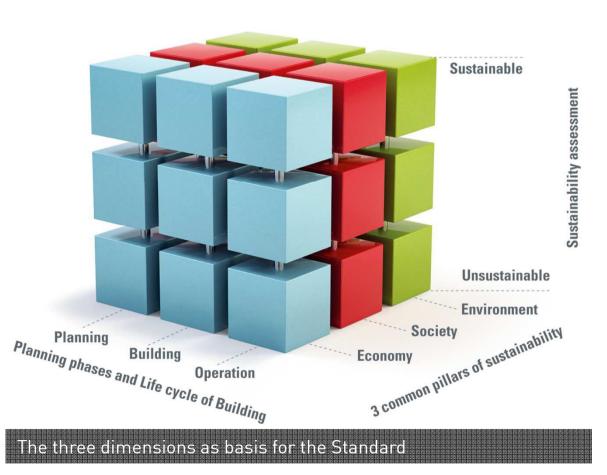
Initial Status

- → A lot of ongoing activities in the area of sustainable construction (Switzerland and Europe)
- → Existing Standards and Labels only cover parts of Sustainability aspects or are not focussed enough to the Swiss Situation
- → Preliminary Study by CCRS and ETHZ: Certification Scheme for sustainable Real Estate Properties, from August to October 2010
- → Project start for the new Standard for Sustainable Construction Switzerland (SNBS) in July 2011 as a joint initiative of public authority and private economy
- ightarrow Pilot phase from mid of 2013 to mid of 2014

Dice as Concept

Approach

- \rightarrow Covering all planning and building phases
- → Complete regarding sustainability
- → Criteria which can be evaluated



Objectives

- → Establish a common understanding of sustainable construction in Switzerland
- → Include well-known and accepted Swiss standards, tools, labels and instruments
- \rightarrow Comprehensive approach with focus on sustainability aspects
- \rightarrow User-friendly and therefor manageable
- ightarrow Based on Swiss construction habits, behaviors and processes
- ightarrow Voluntary commitment of the stakeholder on high quality objectives
- → Foundation for a possible future Swiss Sustainable Construction Label Scheme

Scope and System Boundary

System Boundary

- ightarrow Only the building
- → The location in relation to its neighbourhood

Scope

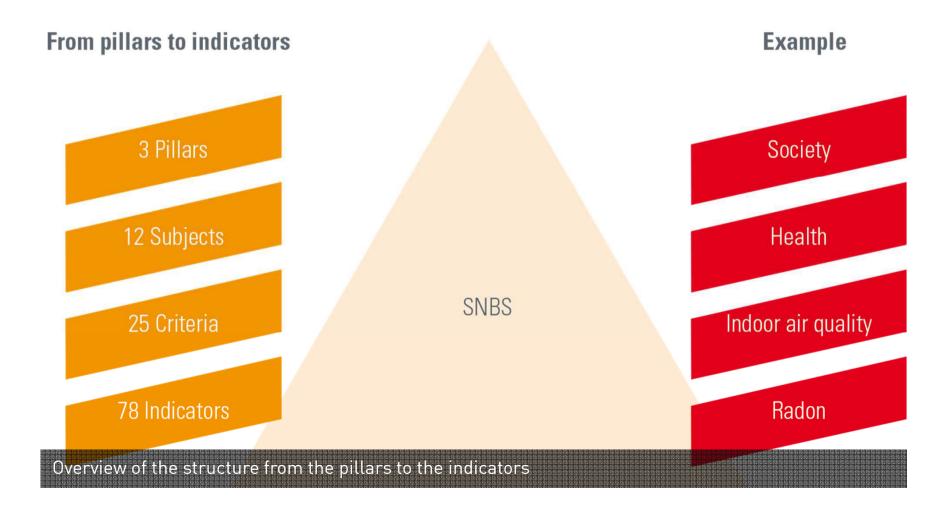
- → New and existing buildings
- → Office Buildings and Dwellings
- Whole Life Cycle



Scope and System Boundary

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Structure















Example of Primary Energy Non-Renewable

| Indicator / Criteria | Subject | Pillar of Sustainability | Overall Result |
|---|--|-----------------------------|--|
| For Example: Primary Energy Non-Renewable for: – Construction | Energy Climate Resource and Environment Nature and Urban Sprawl | Ecology | Rating between 1 (worst) and 6 (best) |
| Operation Mobility | | Society Economy | |
| | | | |

Example of Primary Energy Non-Renewable in the overall assessment System

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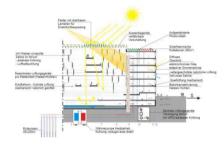
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Pilot Phase with Panel Projects















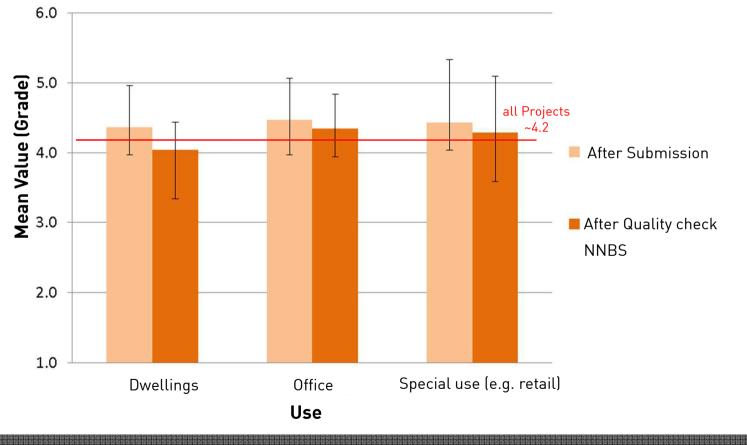








Panel Projects - Learnings



Average results for all Panel Projects after submission and after Quality check

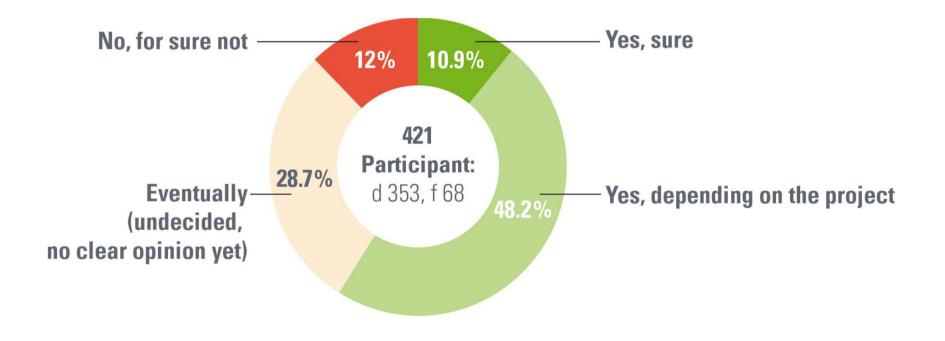
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General Findings

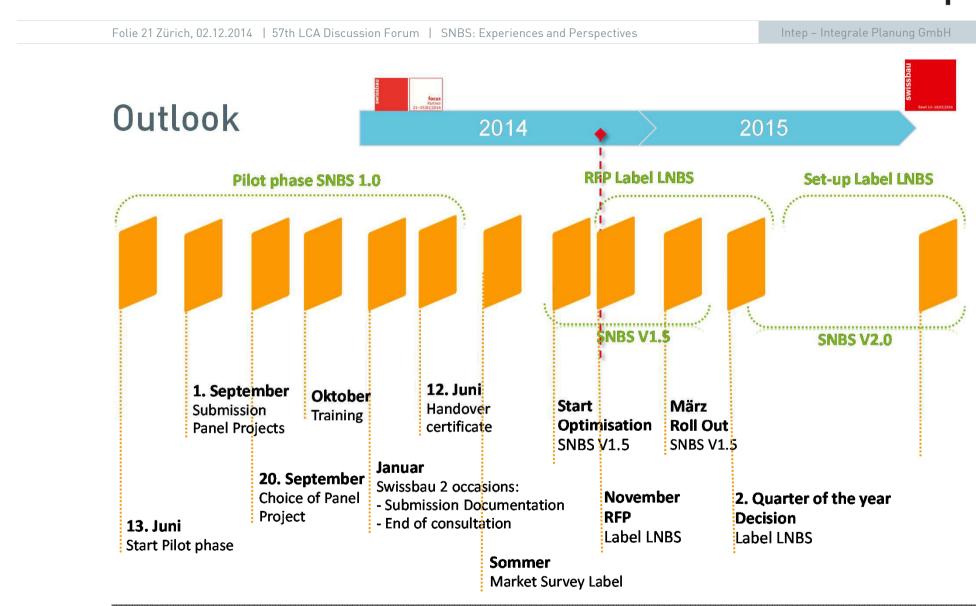
- → Application: works well for offices and dwellings, for special uses like retail there is still need for action
- → Criteria and Indicators: have been mostly confirmed, some review and simplifications are still needed
- → Assessment: Rating scale provides feasible results, scale of grade (1 to 6) is comprehensible but often questioned
- \rightarrow Effort: strongly depending on the team and the project, but clearly smaller then with LEED or DGNB
- \rightarrow «Basically **positive Echo**» on the part of the panel members

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Market Survey



Is there a need for a Swiss label; yes or no



Timeline from the start of the pilot phase to the release of the new Label LNBS

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Thank you for your attention



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Any Questions?