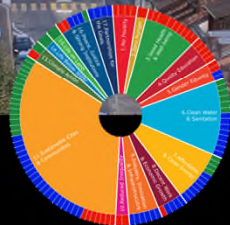
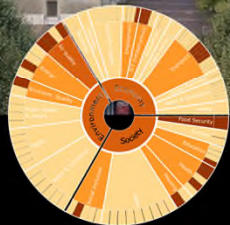
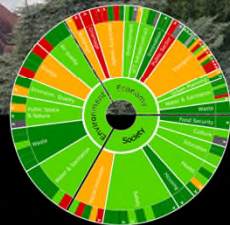
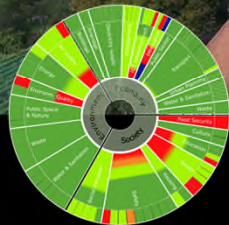
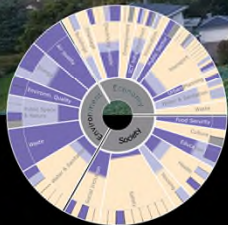
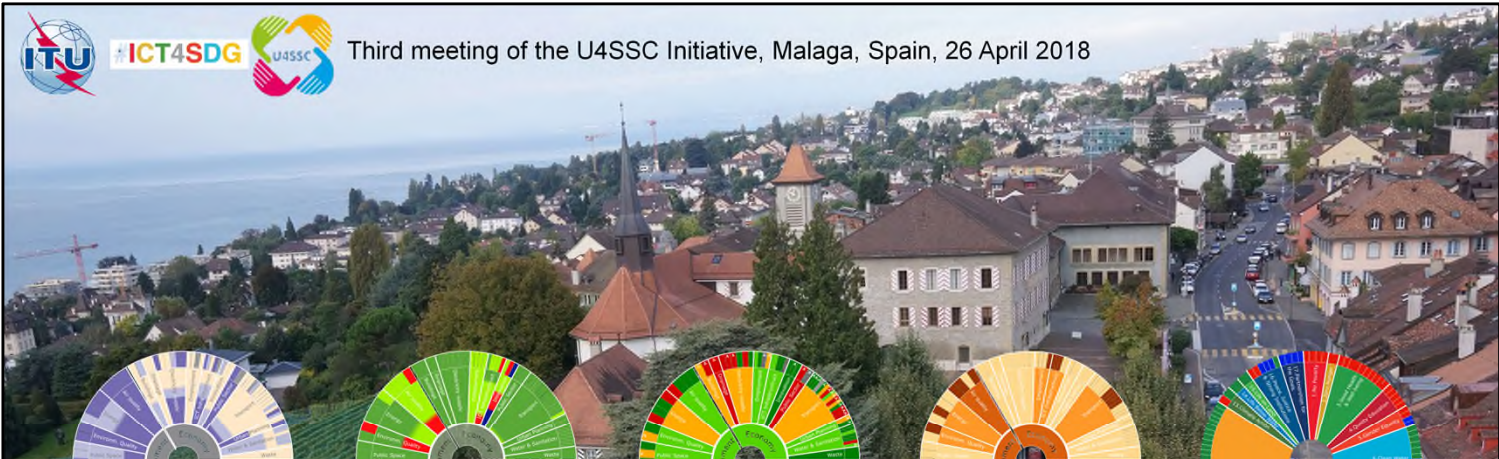




ICT4SDG



Third meeting of the U4SSC Initiative, Malaga, Spain, 26 April 2018



Management of the city of Pully with U4SSC KPIs

Visualisations, target values and scale aspects

Alexandre Bosshard
City of Pully, Switzerland



Thank you very much for giving me the opportunity and honor of speaking here today, representing the small city of Pully, which overlooks the Leman lake side, near the cities of Lausanne and Geneva, with 18'000 inhabitants.

MANAGEMENT OF THE CITY OF PULLY WITH U4SSC KPIs

PHASE 1

Implementation of the U4SSC's initiative (2017) and audit



Public Private Partnership (PPP) between Pully and Swisscom



After a meeting in early 2017 with ITU, Cristina Büeti and Bilel Jamoussi, we started the collection of Pully KPIs.

To this end, we created a Public Private Partnership between the City of Pully and Swisscom, the first national telecom operator in Switzerland.

You can see the project team of this PPP partnership 😊.

The result of this phase is a 2m-high Excel file consisting of 146 lines of data.

In early 2018, we were audited by John Smiciklas and received the audit report on March.



As Professor Peter Drucker said: “you can’t manage what you don’t measure”.

For this reason, we think that a valuable tool that could help politicians and administration, is the use of KPIs.

But, the project team imagined that if it presented the 2m-high Excel table to our Municipal Council, it will not be easy for them to use this tool.

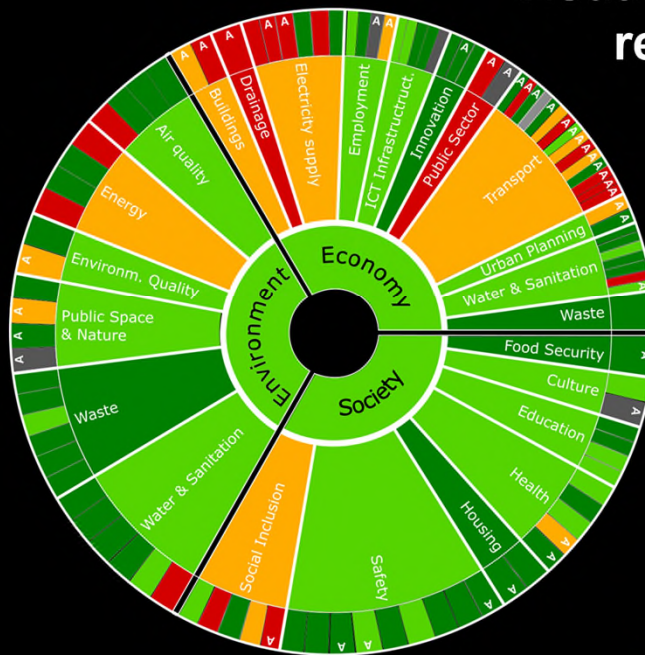
So we launched a Phase 2 project which consists of:

- On one hand, visualizing the KPIs in such a way that they are easily understandable for the politician, the citizen and the administration.
- On the other hand writing a report that presents the city of Pully’s experience in the implementation of U4SSC KPIs.

Scoring of KPIs based on target values

Fulfillment of the target

- 95 % -100 %
- 66 % -95 %
- 33 % - 65 %
- 0 % - 33 %
- Not available



We transformed the 2 m high Excel chart in a wheel:

- At the center of the wheel, we find the 3 main themes of sustainable development (Environment, Economy and Society).
- Then, the sub-themes, for example for the environment approaches (Air quality, Energy, Environment quality, Public Space and Nature, Waste, and Water & Sanitation).
- Finally, on the periphery, we find the KPIs according to U4SSC initiative.
- The colors give the level of success in reaching the target values, therefore dark green is (very good), green (good), orange (medium) and red (bad).

Preliminary results – Points to focus on



Renewable energy consumption



Child care availability



Public energy consumption



Cycling transportation



Open data

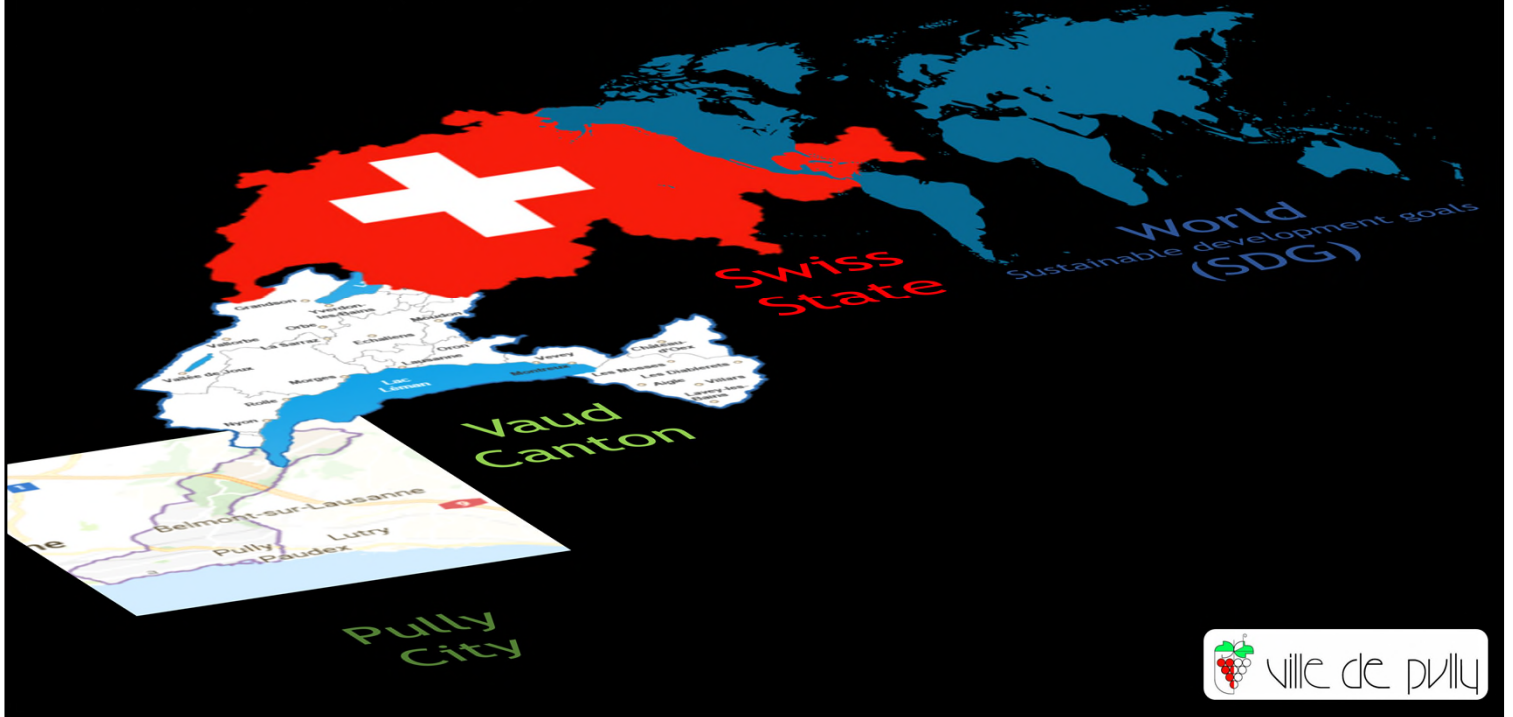


Based on the wheel and the target values, it appears that attention should be paid to the following themes:

- Child care availability, this goal is being implemented for example with 4 reception structures created in 2017. The implementation horizon is around 2030.
- Cycling transportation, this goal is currently being addressed. A mobility specialist was hired 5 years ago. This is done at the scale of the agglomeration of Lausanne. The implementation horizon is around 2040.
- Public energy consumption and renewable energy consumption, this goal is currently being addressed. An energy specialist was hired 5 years ago. In 2017, the City of Pully obtained the "Cité de l'énergie" label or "European Energy Award". The implementation horizon is around 2050.
- Open data: this goal is in the fridge (on hold) for the moment for questions of resources and harmonization of data models at national level.

In doing this work, several points of reflections came to us, those of which I would like to share with you.

Different levels to manage

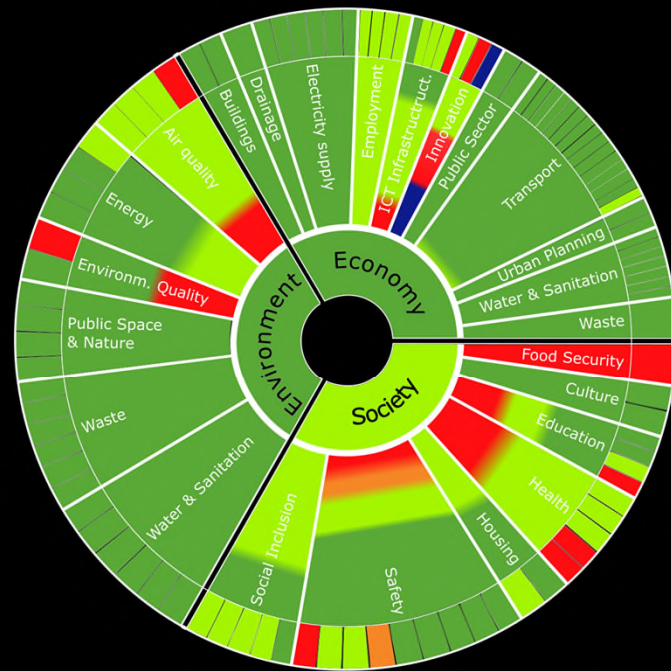
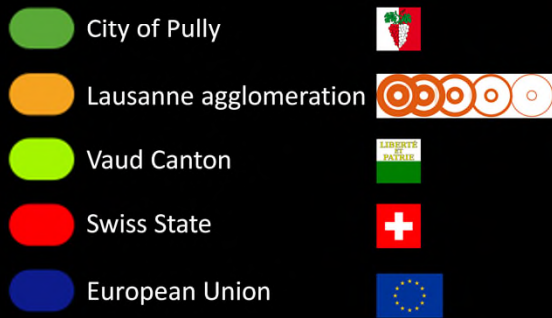


During the harvest of the KPIs, we regularly had to play with 4 levels:

- The city
- The Canton of Vaud
- Switzerland
- The world

First point of reflexion: At what resolution level the data are measured ?

KPI's resolution's level



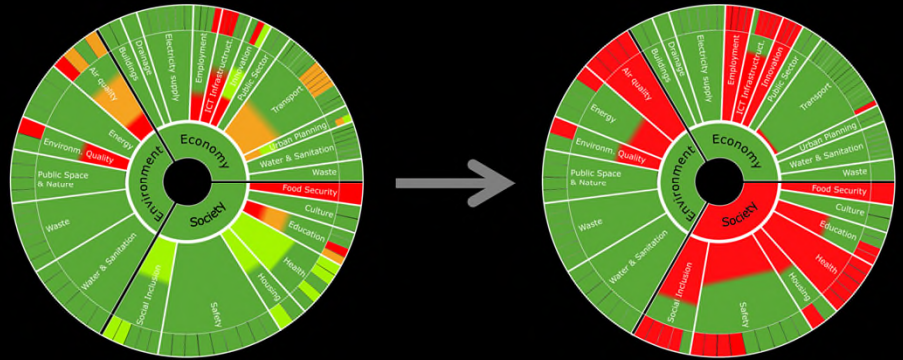
⇒ Good resolution of the data, mainly collected on a city level ☺



- In dark green, the KPIs measured at the Pully level, for example: Water consumption.
- In light green, the KPIs measured at the canton of Vaud level, for example: Life expectancy.
- In red, the KPIs measured at national level, for example: Greenhouse gas emission.
- About 70 % of the KPIs were measured at a "city" level, so we can conclude that the resolution level is pretty good.

KPI's resolution's level

Suggestion for the data collection



⇒ Collection of the data for the cantonal, national and international levels by the national administration



A suggestion for the data collection is that , the 30% KPIs provided by the agglomeration, canton and national levels, could be collected by the national administration, so that it could dramatically simplify the collection of KPIs for the cities and that it increases the attractiveness to apply the U4SSC initiative.

This could allow a comparison between cities to share experiences, knowledge, skills, and finance so that it could accelerate the transition towards smart and sustainable cities.

KPI's target values



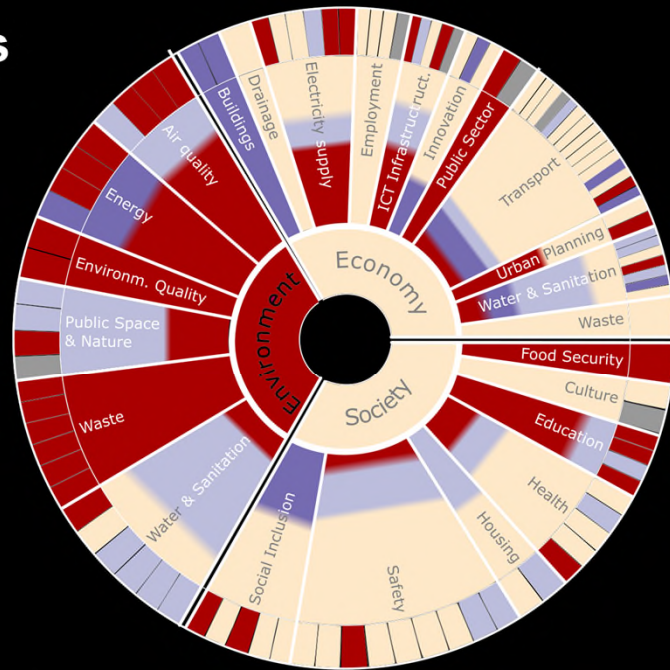
The U4SSC initiative is an excellent thermometer.

However, for a thermometer to be truly effective, it is necessary to know that a fever starts at 37 degrees 😊.

Also, a second point of reflexion is : for each KPIs, what is the target value to reach?

This is what we sought to determine.

Sources of target values



- National guidelines or laws
- European guidelines
- International guidelines
- Personal assessment
- No target values available

⇒ Low source of target values get acquired from the national level 😞



To this end, we have developed a wheel with the origin of the target values.

For example:

- In light beige, these target values come from an estimation by the project team compared to other cities or countries.
- In dark red, these target values come from the Swiss national level in the form of laws, ordinances or regulations.

Few target values are provided at the national level, based on laws, ordinances and regulation. And this needs to be improved.

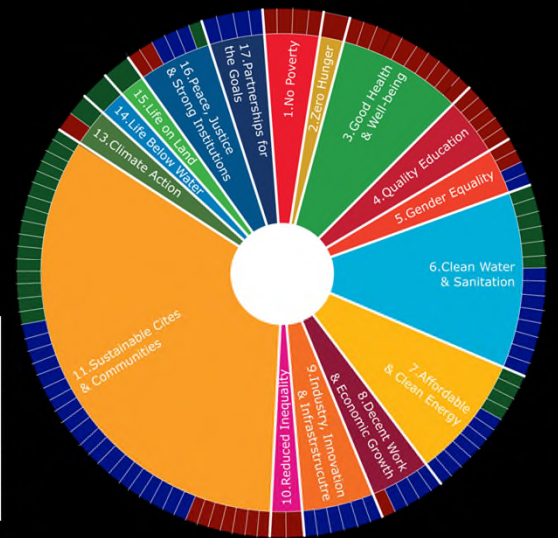
Suggestion of improvement for the KPIs visualization



U4SSC categories

- Economy
- Environnement
- Society

Sustainable Development Goals (SDG)



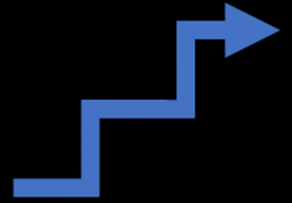
- ⇒ Collection of target values, based on the SDGs
- ⇒ Collection of target values, based on Swiss national laws



Two other proposals would be the harvest of target values.

- At the global level, these could be derived from SDGs and incorporated into the U4SSC initiative.
- At the national level, these could be provided by the national administration.

Next steps



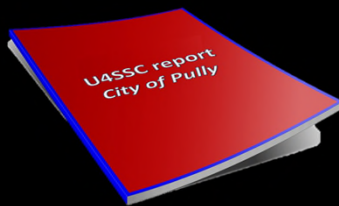
Better define target values for SDG



Better define target values based on Swiss national laws



Suggest to the Swiss administration to collect the KPIs for the canton, national and international levels



Report publication with Swisscom in October 2018



To sum up here are the next actions we will undertake:

- Present the suggestion to the ITU to include target values according to SDGs into U4SSC initiative. This is done today 😊.
- Present the suggestion to the Swiss national administration to collect national target values.
- Present the suggestion to the Swiss national administration to collect KPIs at cantonal, national and international levels.
- These two points will be presented to the Swiss national administration tomorrow. 😊
- Publish a report in October 2018 on our experience applying U4SSC indicators in Pully.

Thank you for your attention



Alexandre Bosshard

Member of the Board, coordinator and project leader
Department for industrial services and technical office
City of Pully, Switzerland

alexandre.bosshard@pully.ch



Mélanie Guillebeau

Biologist
Swisscom



So I hope, I've managed to highlight the experience of a small city focused on the use of KPI's, and I look forward to sharing innovative ideas with you and perhaps, with the help of the U4SSC initiative, co-create a project together in the future.