INNOVATIVE TOOLS AND SOURCES

for data collection

Harmonised European Time Use Survey

PS III – Future Perspectives

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Innovative tools and sources for TUS and HBS

International Association for Time Use Research
Conference, Budapest 24-26 October 2018

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Presentation overview

- Project objectives

- State of play

- International cooperation

- Next steps

1. Project objectives

Once upon a time at the 2011 DGINS Wiesbaden (D)…

…and it's Memorandum stressed:

**the need for better information
from time use and household budgets
in terms of coverage and comparability**

The need was confirmed:

- ✓ to explore and **implement new possibilities for improving responsiveness to user needs**

- ✓ to better **link the data collection with other data sources**

- ✓ for more efficient data collection for Member States, **taking into account new technological developments**
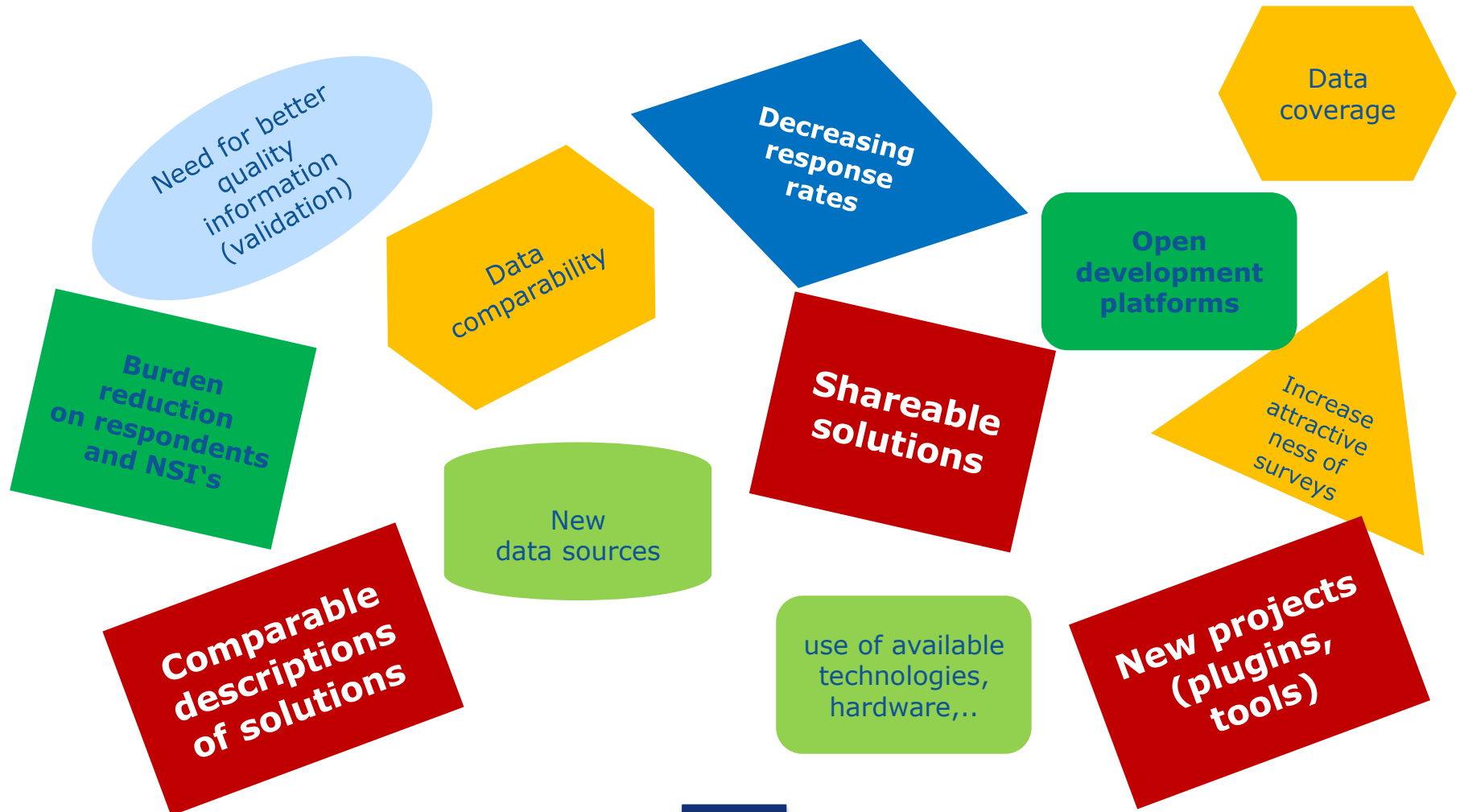
To find solutions to:

✓ **Lower the burden on respondents** in MS for the surveys' data collection

✓ **Increase** the subsequent low and/or decreasing **response rates**

✓ **Lower the burden for NSIs** on completing the surveys, processing the incoming data

... a plan was cooked...

- **Eurostat defined a dedicated project**

- **the Task Forces TUS and HBS on innovation were born!**

Innovation project coverage....

Need for better quality information (validation)

Data comparability

Decreasing response rates

Data coverage

Open development platforms

Burden reduction on respondents and NSI's

Shareable solutions

Increase attractiveness of surveys

New data sources

Comparable descriptions of solutions

use of available technologies, hardware,..

New projects (plugins, tools)

2. State of play – Baseline created

- Questionnaire on innovation for TUS and HBS

- First version of inventory of tools and sources

- Tool descriptions on definition level using Common Statistical Production Architecture (CSPA) recommendations

  - The highest level to define the business function of tools used for data collection in Member States.

- List of selection criteria for assessing potential tools and sources by the Task Forces in the future.

Questionnaire on modernization activities

- planned projects

- tools being used, development environment

- frequency of data collection

- data sources and connected devices: admin. sources, smartphone, wearables, sensors, other sources, gps,…

- **Detailed results are available on the TF wiki!!!**

The Inventory START page

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The TOOLs main page

Innovative Tools INVENTORY

eurostat

Statistical Office of the European Union

Directorate F: Social Statistics

Unit F-4

Income and living conditions | Quality of life
Innovative tools and sources for living conditions surveys

Business goals Processes Stakeholders	Validation Accessability Usability Automatization	External Sources linked to the Tool	
Tool Identification			Back to START
Back Office Description	Front Office Description	Security & Privacy	

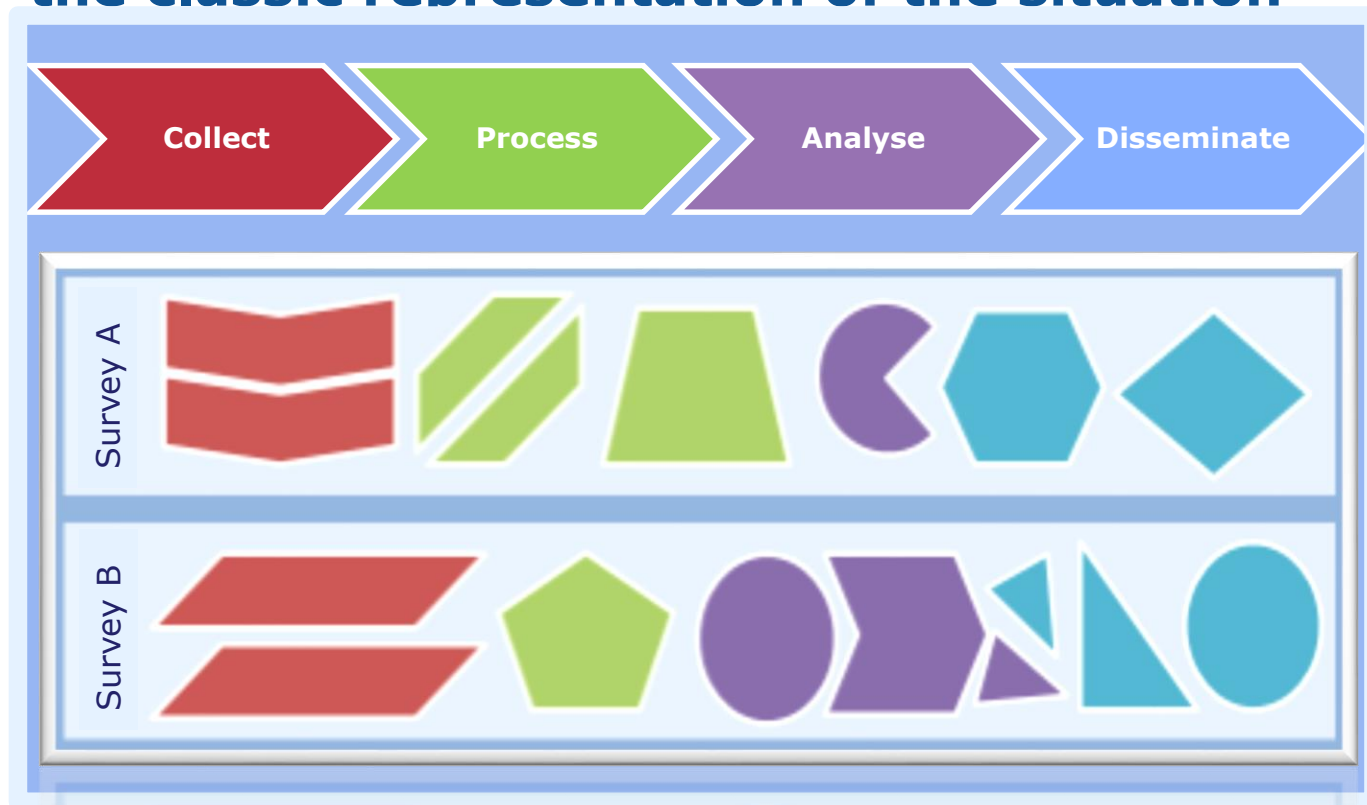| START | TOOLS | SOURCES | TOOL ID | PROC-STAKE | VALID | EXT SOURCES | FRONT.OFFICE | SECUR-PRIV | BACK.OFFICE |

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CSPA....Stovepipe production: our reality ☹

**We all do similar things to deliver similar results and to realise this
we develop and maintain similar tools in parallel...**

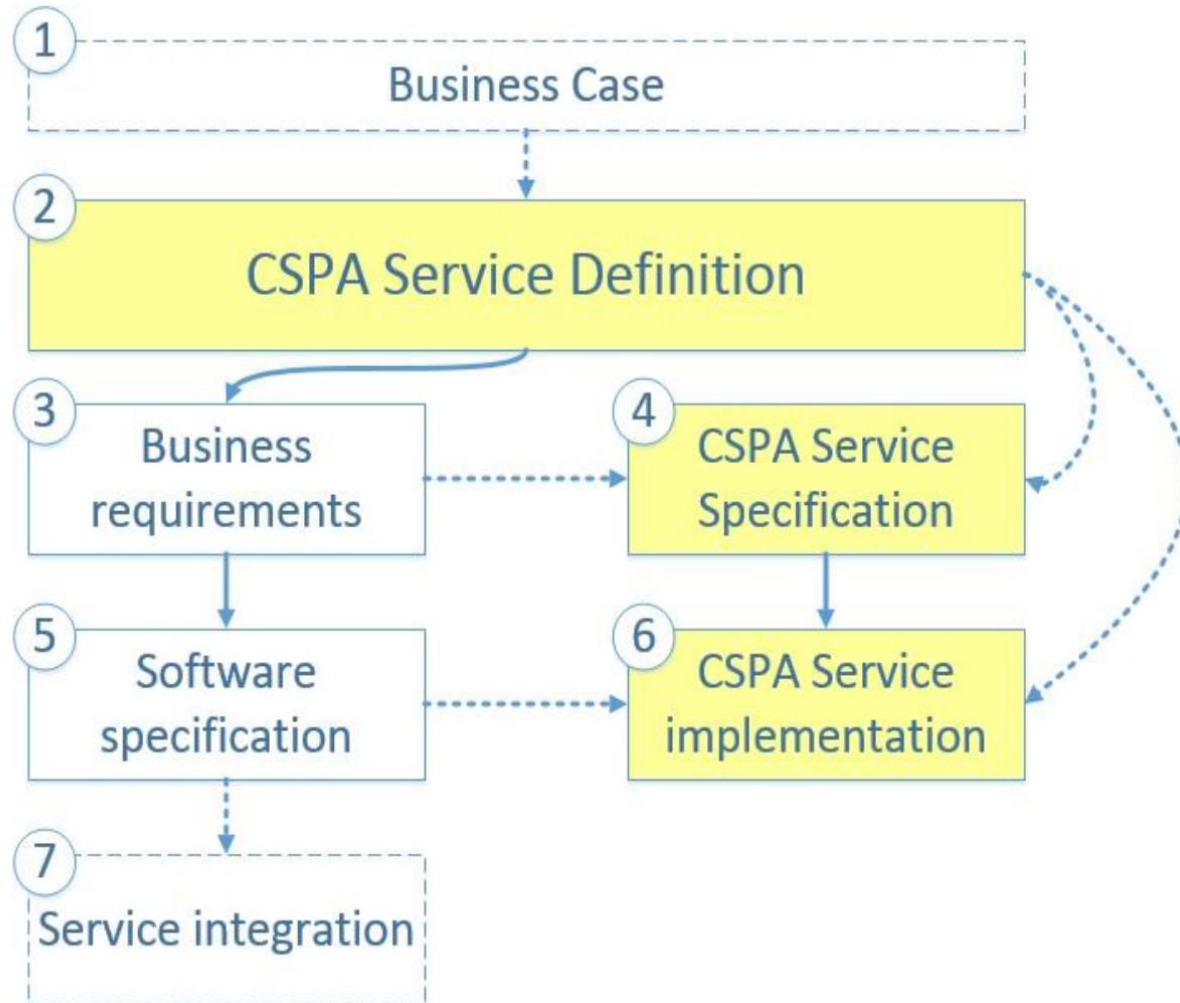# Stovepipe collection and production: our reality...

➔ the classic representation of the situation

This is where CSPA came in ...

- UNECE started the project Common Statistical Production Architecture (CSPA).

- Creating a **generic architecture** for statistical production. It is nowadays an industry standard architecture for statistical organizations.

- Providing principles and guidance **to standardize and share components of statistical production**

CSPA templates used to document

- Standard templates agreed for:

  - **Service Definition** – conceptual level overview of what the service is and what it does – understandable by users

  - **Service Specification** – logical level description of service capabilities, inputs and outputs

  - **Service Implementation Description** – physical level description of how to implement the service

Selection Criteria supporting the work of the Task Force

Resulted in defining specific criteria for Statisticians, Developers and Respondents

in 7 identified groups:
Reusability of the tool, Comparability of data collected, User friendliness, Online web Based, Maintainability, Statistical aspects and Costs

3. International cooperation

- UN Statistical Division:

  - ❑ Different exchanges between Eurostat and UNSD

  - ❑ Innovation project presented the Expert Group Meeting (TUS) in June 2018

  - ❑ UNSD presented their modernisation activities in the Joint TF meeting 8/9 Oct 2018 Luxemburg.

- STATCAN: did complete the innovation questionnaire, regular bilateral contacts

- Initial contacts with others…

4. Next steps (2018-2020)

- Further development of the Inventory of tools and sources: adding selection criteria for tool selection, tool descriptions,..

- First tools being shared in test among some Member States.

- Continue the work on comparable descriptions and start with the specification level (functional)

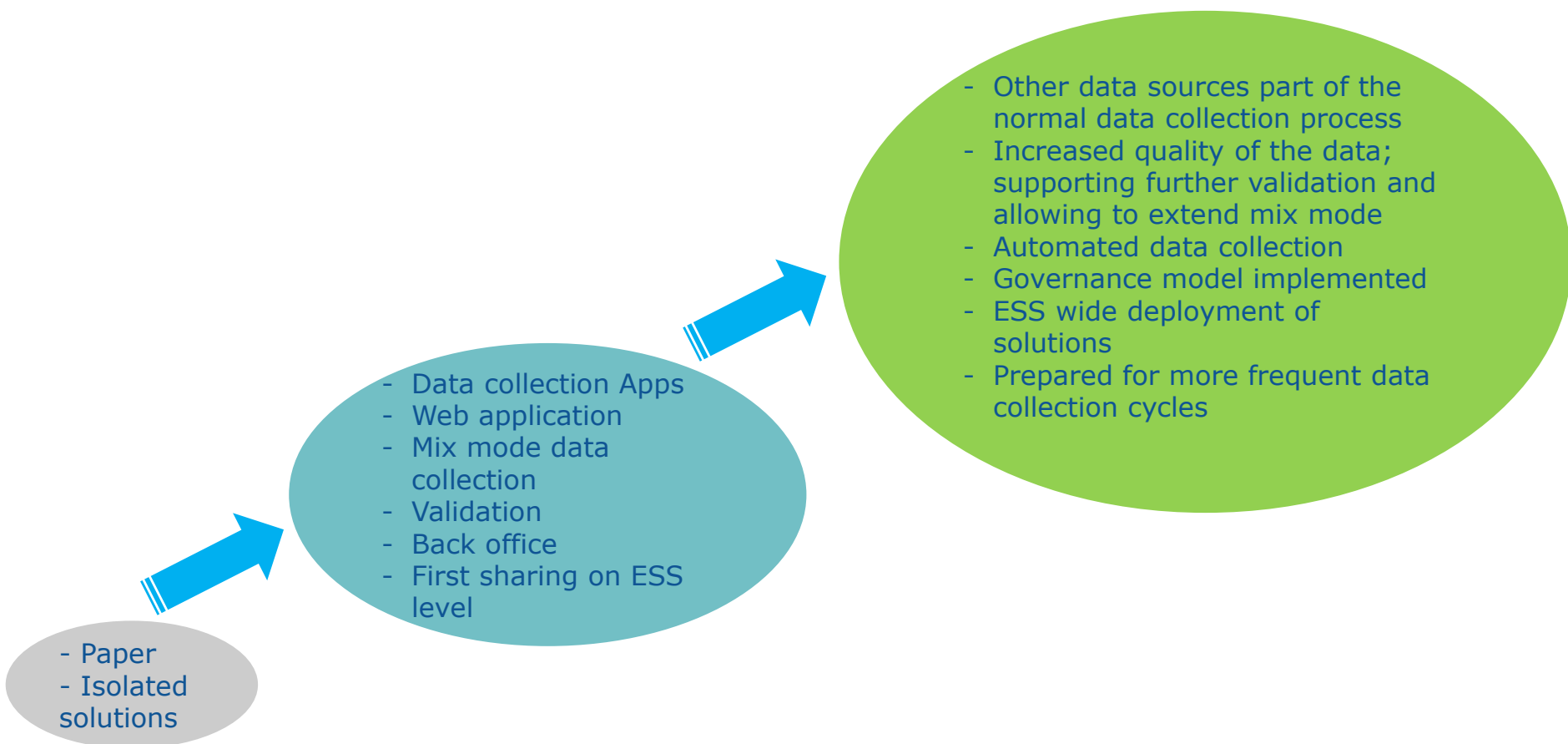- Proposal for future governance of tools and sources for HBS and TUS

4. Next Steps

- Analyse usage of different types of cards as sources for data collection in HBS and the usage of geo-localisation in TUS data collection

- Continue cooperation with Big Data experts (e.g. ESS TF BD); identify potential for integration in HBS and TUS data collection and sharing of experiences

- Start assessing future data needs for data collected in both surveys.

4. Next steps

- **Start grant project** supporting MS easier sharing of solutions for data collection in the ESS to complete the HBS and TUS survey.
- Interesting proposals received for both domains covering a good group of countries
- **Some of the topics covered**:
  - sharing of existing highly configurable environment incl. usage of apps, open platform development
  - geo localisation, speech recognition
  - data linking, introduction of additional languages
  - testing among countries
- Target is to be operational in December 2018/January 2019

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2019 – 2024, in a nutshell...

- Other data sources part of the normal data collection process
- Increased quality of the data; supporting further validation and allowing to extend mix mode
- Automated data collection
- Governance model implemented
- ESS wide deployment of solutions
- Prepared for more frequent data collection cycles

- Data collection Apps
- Web application
- Mix mode data collection
- Validation
- Back office
- First sharing on ESS level

- Paper
- Isolated solutions

Project long term objective…

"To have, by 2025, innovative solutions for HBS and TUS data collection in the ESS implemented

by all participating Member States."

easy and attractive to use

for data providers and NSI's….

We go this way together!
Starting with sharing our experiences...

Thank you!

European Commission

Eurostat – F.4 – Income and living conditions; Quality of life

Project:

Innovative tools and sources for living conditions surveys - HBS and TUS

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Wiki Innovative sources and tools for living conditions surveys:
https://webgate.ec.europa.eu/fpfis/wikis/spaces/viewspace.action?key=ISTLCS

**TUS
on
Top of the world**

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