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Bridging the ODTP and Its Potential Users with Visualizations

Dr. Chenyu Zuo 06.06.2023

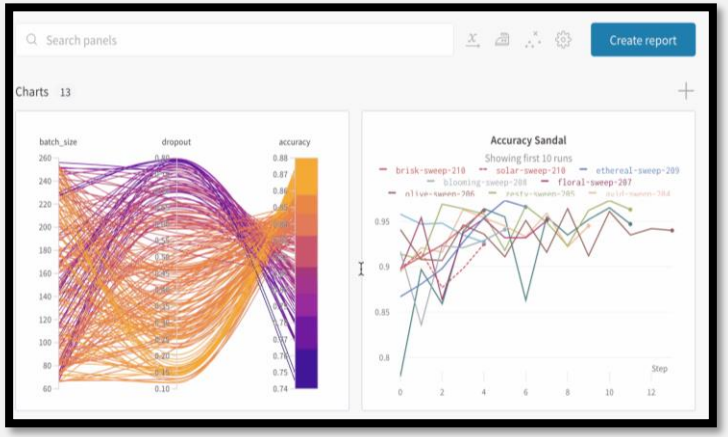
CSFM

Using Visualizations to …

Explore Data Features

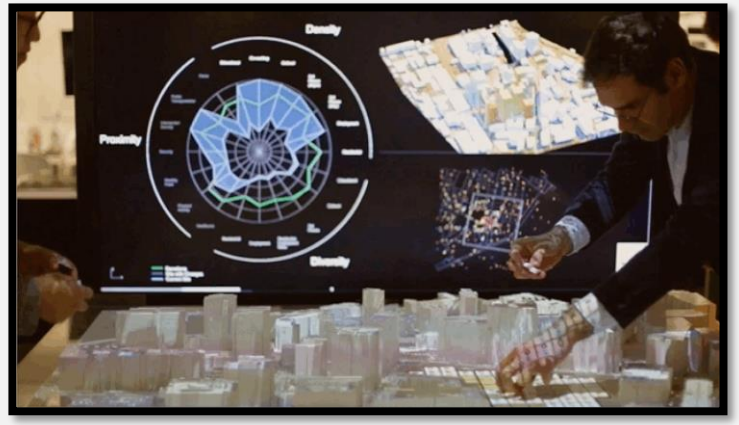
Showing spatiotemporal patterns
(Zuo et al. 2022)

Monitor Analysis Progresses



Tracking experiments and version managing
(Weights & Biases, 2023)

Collaboratively Make Decisions



Collaborative decision-making
(Aloson et al. 2018)

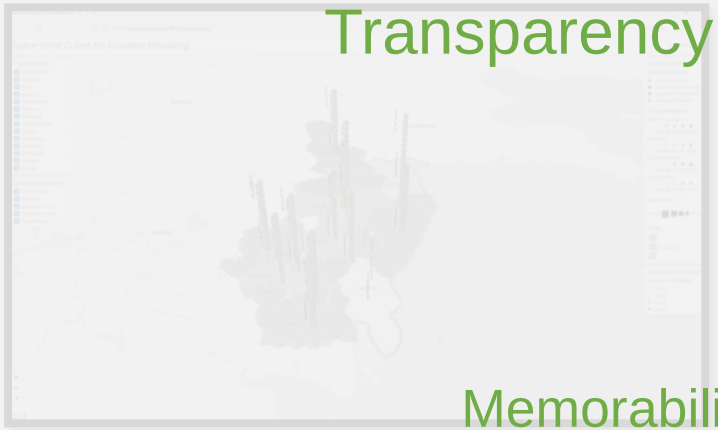
Using Visualizations to Increase …

Engagement

Learnability

Understandability

Transparency



Efficiency

Awareness

Effectiveness

Memorability

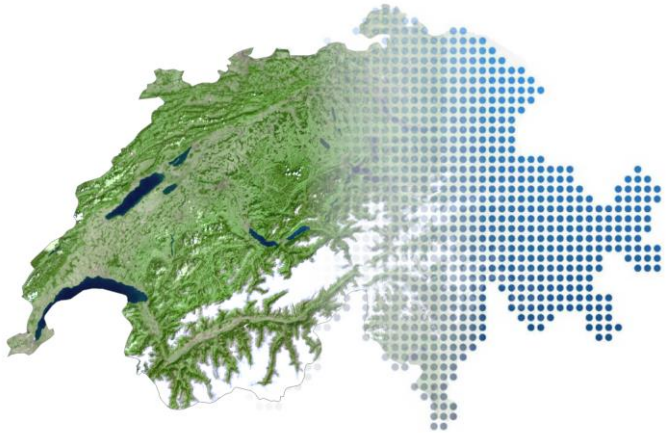
Trust

… in communication with big data.

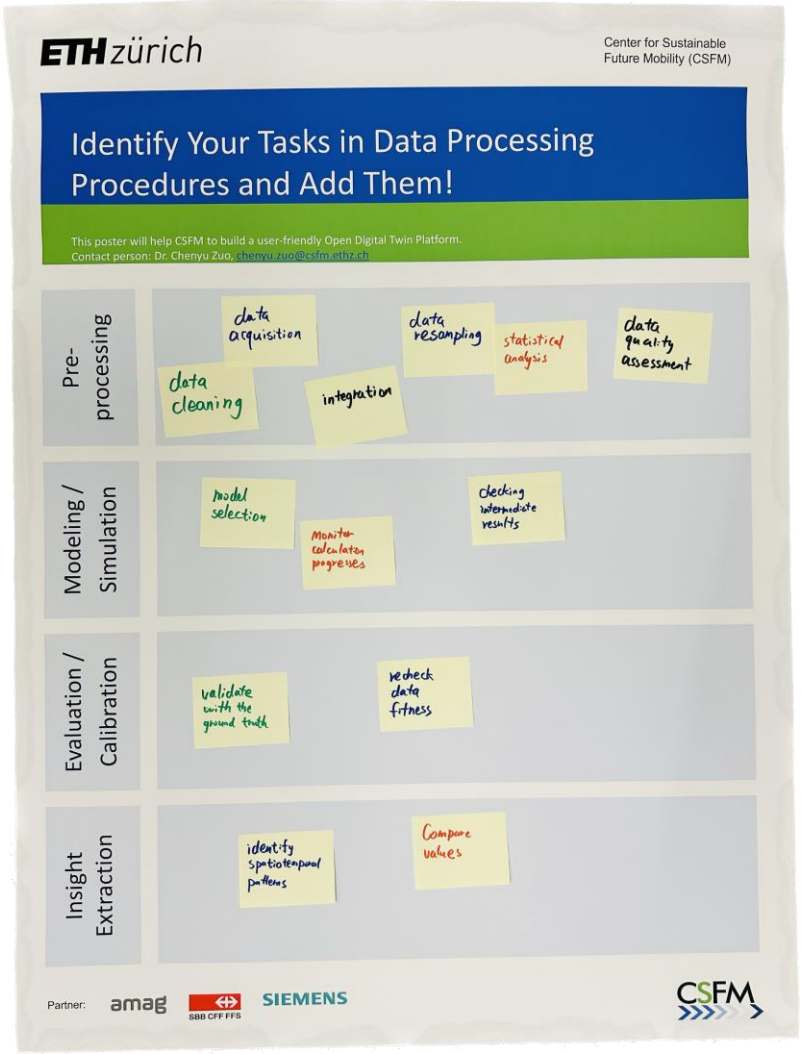
Using Visualizations as an Infrastructure in ODTP

Collecting user tasks can help us to design a user-friendly visualization interface

Please find this poster and **write down your tasks** in your data processing procedures.



ODTP



Thank you!

Bridging the Open Digital Twin Platform and the Potential Users with Visualizations

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Citations

- Alonso, L., Zhang, Y. R., Grignard, A., Noyman, A., Sakai, Y., ElKatsha, M., ... & Larson, K. (2018). Cityscope: a data-driven interactive simulation tool for urban design. Use case volpe. In *Unifying Themes in Complex Systems IX: Proceedings of the Ninth International Conference on Complex Systems 9* (pp. 253-261). Springer International Publishing.
- Zuo, C., Gao, M., Ding, L., & Meng, L. (2022). Space-Time Cube for Visual Queries over Metadata of Heterogeneous Geodata. KN-Journal of Cartography and Geographic Information, 72(1), 29-39.
- *Weights & Biases – Developer tools for ML*. (n.d.). Weights & Biases – Developer Tools for ML. https://wandb.ai/site