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The SNSF and its data Why we had to change The planned modernization strategy What actually happened What we learned



Swiss National Science Foundation (SNSF)



promotes excellent scientific research



strengthens Switzerland as a centre of science

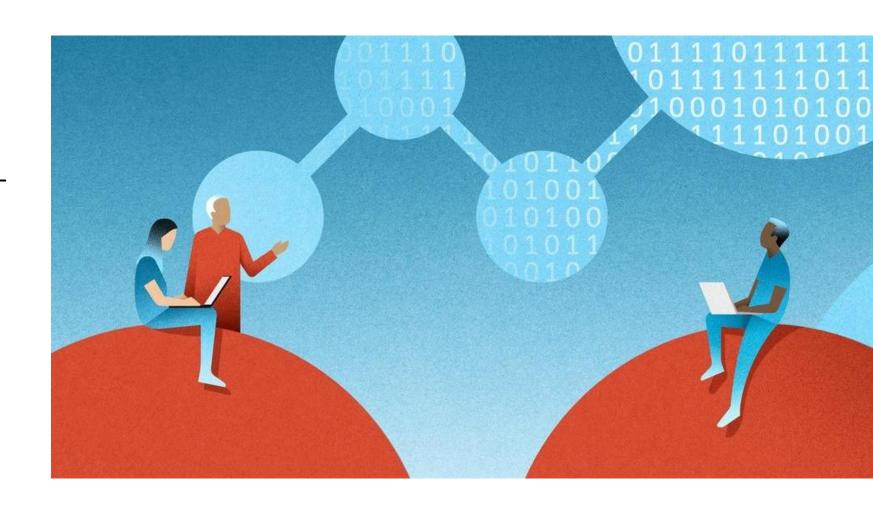


is committed to sustainable development and equal opportunities



Data at the Swiss National Science Foundation

"Our data isn't just technical — it's a mirror of decades of changing science funding practices."





Swiss National Science Foundation's Data Strategy







Augment processes with insights



Data-literate organisation

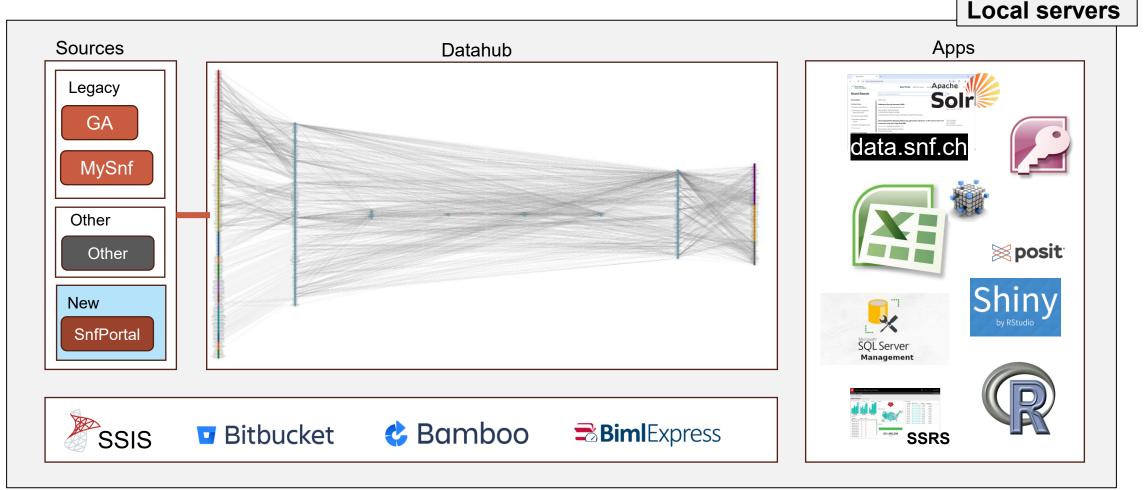


modular and scalable self-service data platform

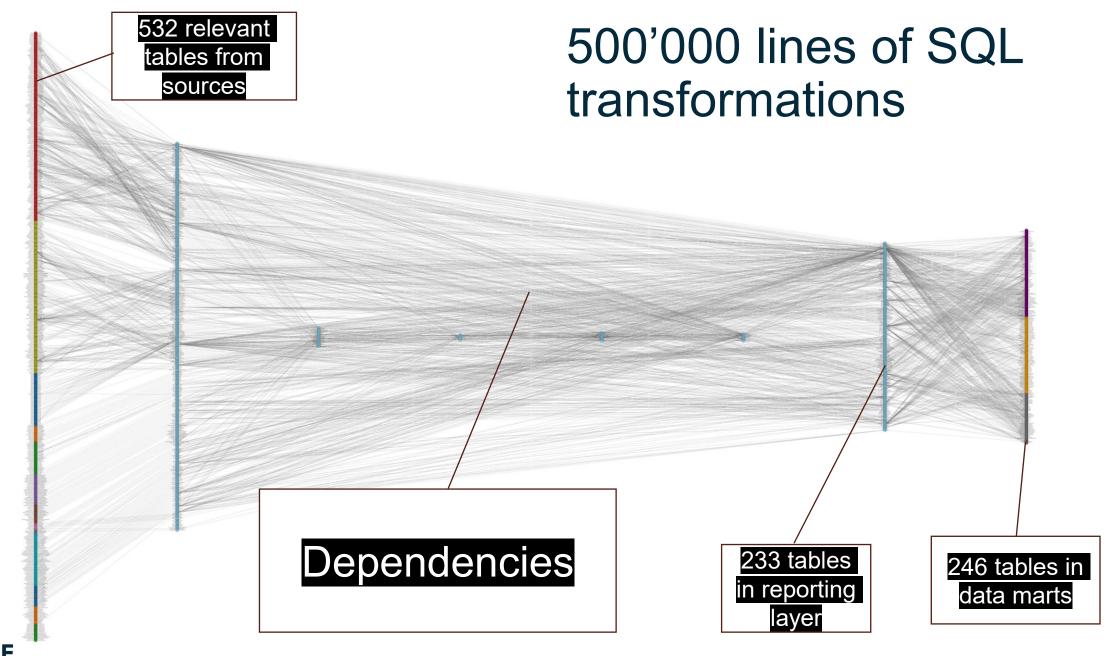


The old analytics landscape @SNSF

"Despite having a well-oiled BI machine, major business and technical shifts required us to rethink our entire data stack."

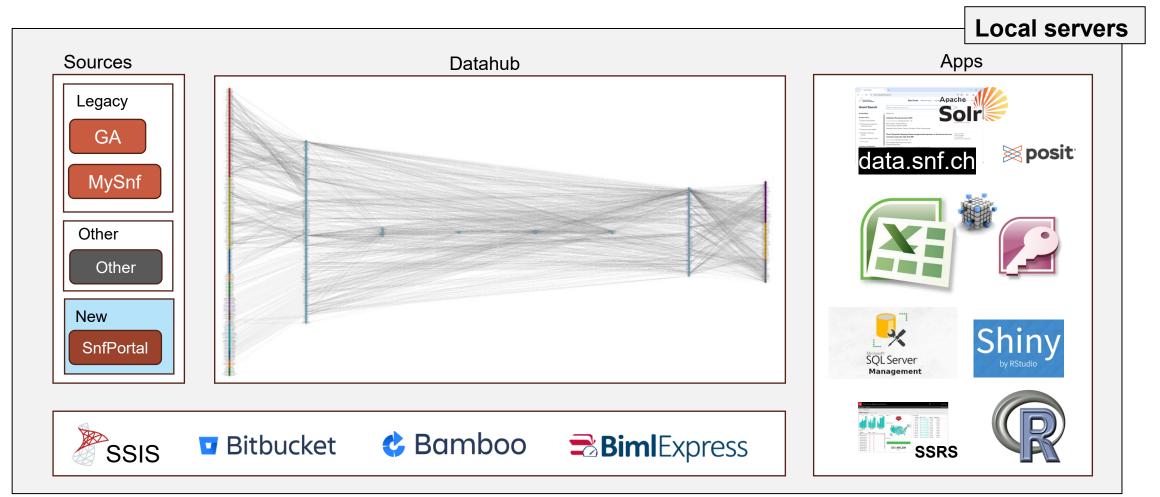






The old analytics landscape @SNSF

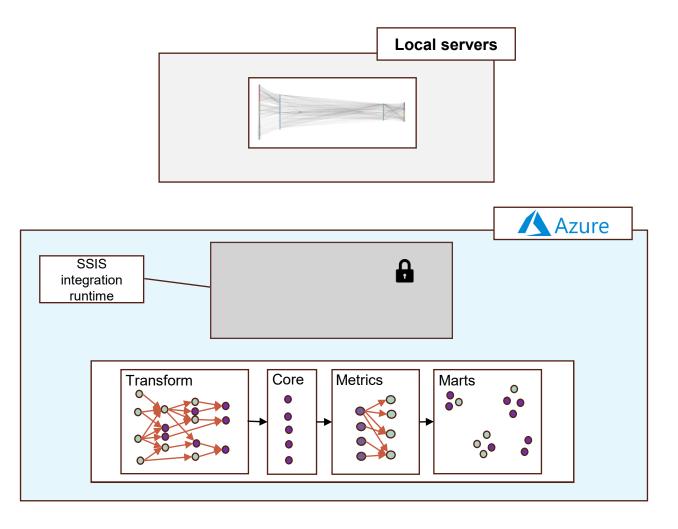
"Despite having a well-oiled BI machine, major business and technical shifts required us to rethink our entire data stack."





The planned modernization strategy

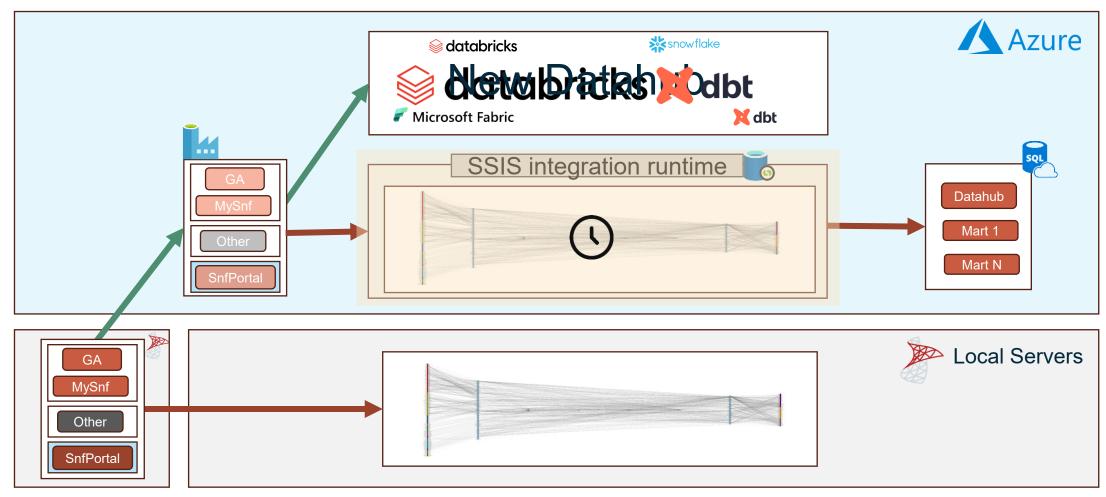
"Our Original Plan was Lift & Shift, Start New & Fade Out"





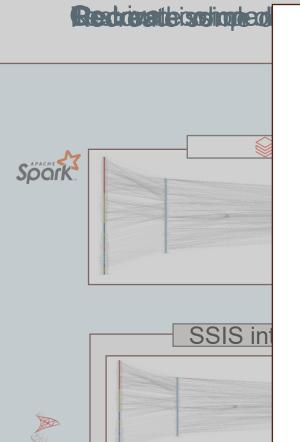
What actually happened

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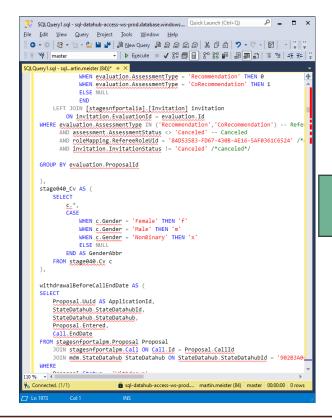


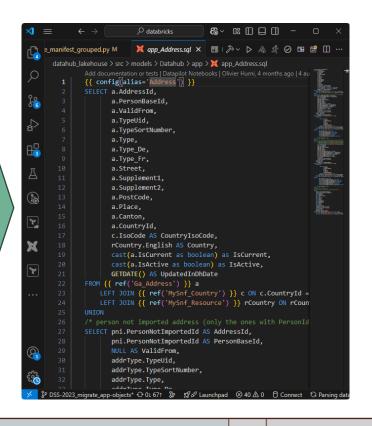


What actually happened



From SQL Server to Spark SQL

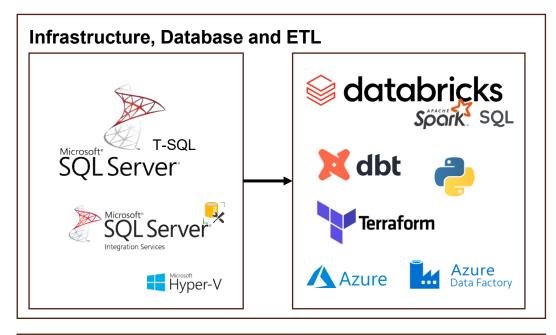


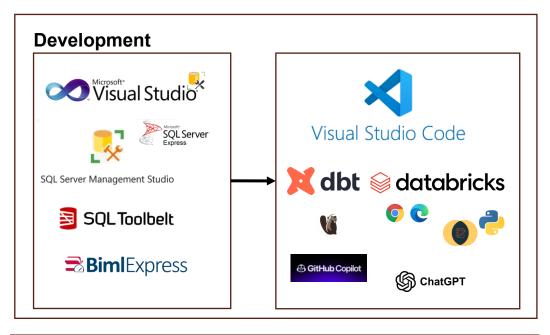


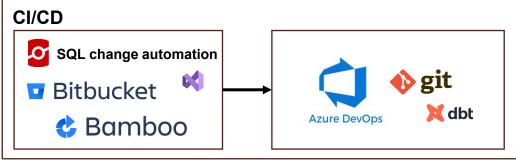


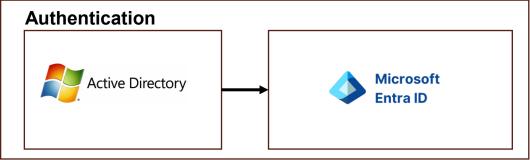
Modernization overview

"This wasn't just a tech upgrade. It changed how our team works, delivers, and thinks and how we interact with our customers."



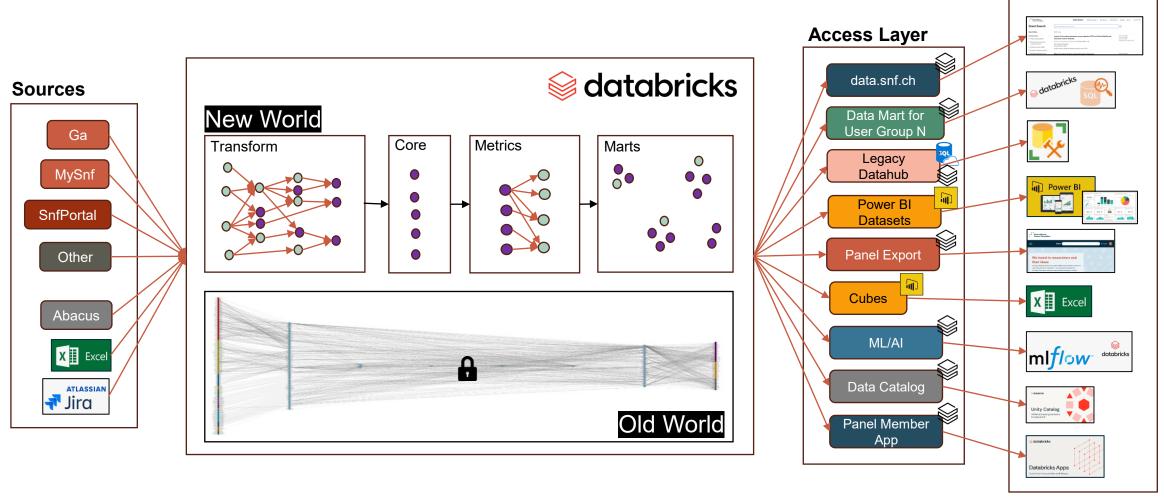








Current step: remodeling the complete DWH





Apps

Open-source community

Databricks apps are super cool

Easier and more fun to onboard people

Better insights



Transparent user activities

Efficient operations

Databricks and dbt are very powerful

Code First approach

-automatization

-benefit from Al

Tracking of dependencies

Custom tools for testing



Best practices from SW development



Don't be perfect from the start

Only start with Terraform after an MVP

Biggest challenges are not technical

Don't use legacy tech in the cloud

Cloud set up is hard

Bottlenecks can delay the whole project

Collab with central PLAT team extremely important

Private end-points make everything more difficult



No one in our team had experience with the new Stack

Change your strategy as you learn new facts

Technology has no intrinsic value

Be curious and learn fast

Embrace agile

Generative AI changed everything

Start small, fail fast

The new dev toolchain changed the way our team works



Thank you!

