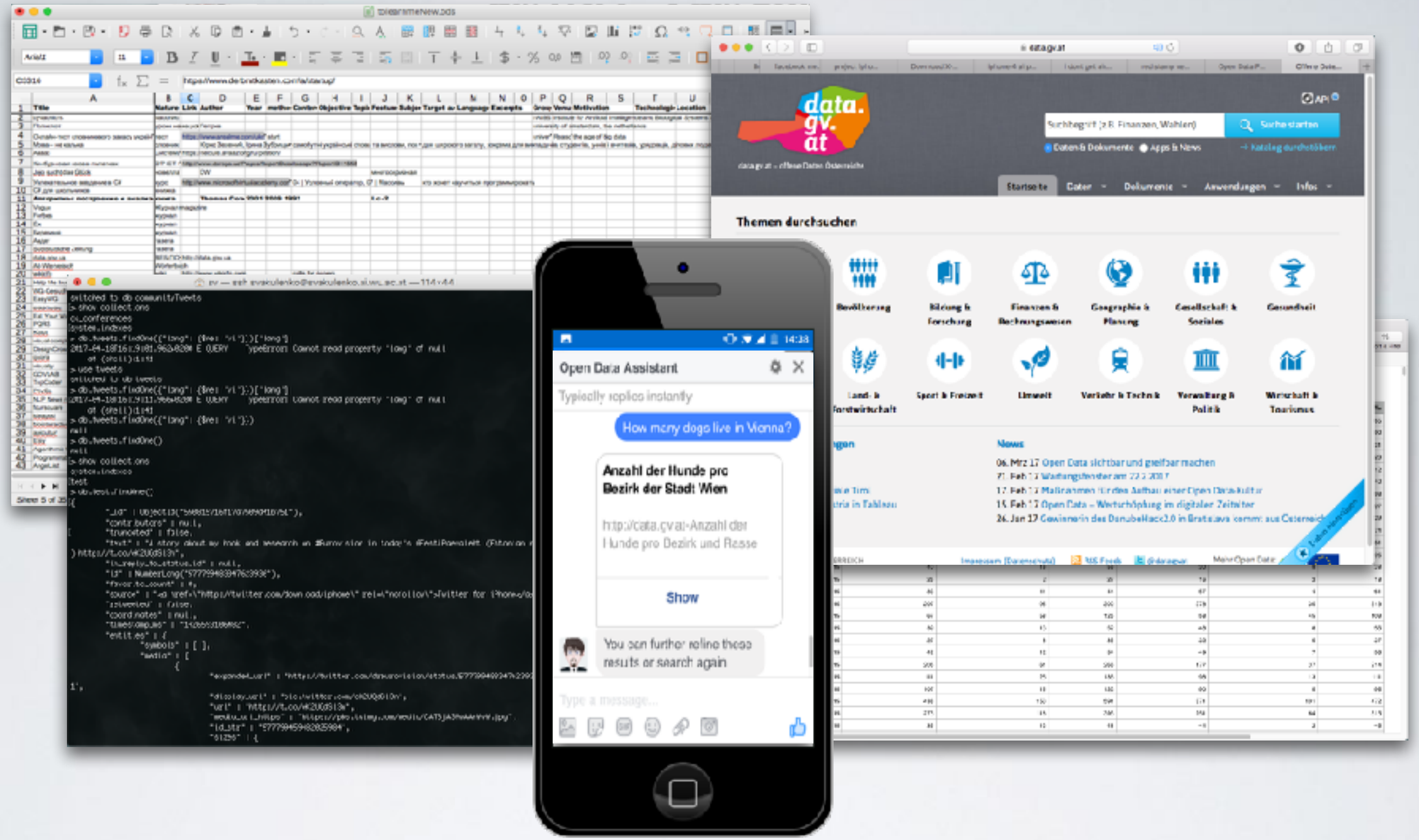


Talk Data to Me

Svitlana Vakulenko

Data Pain

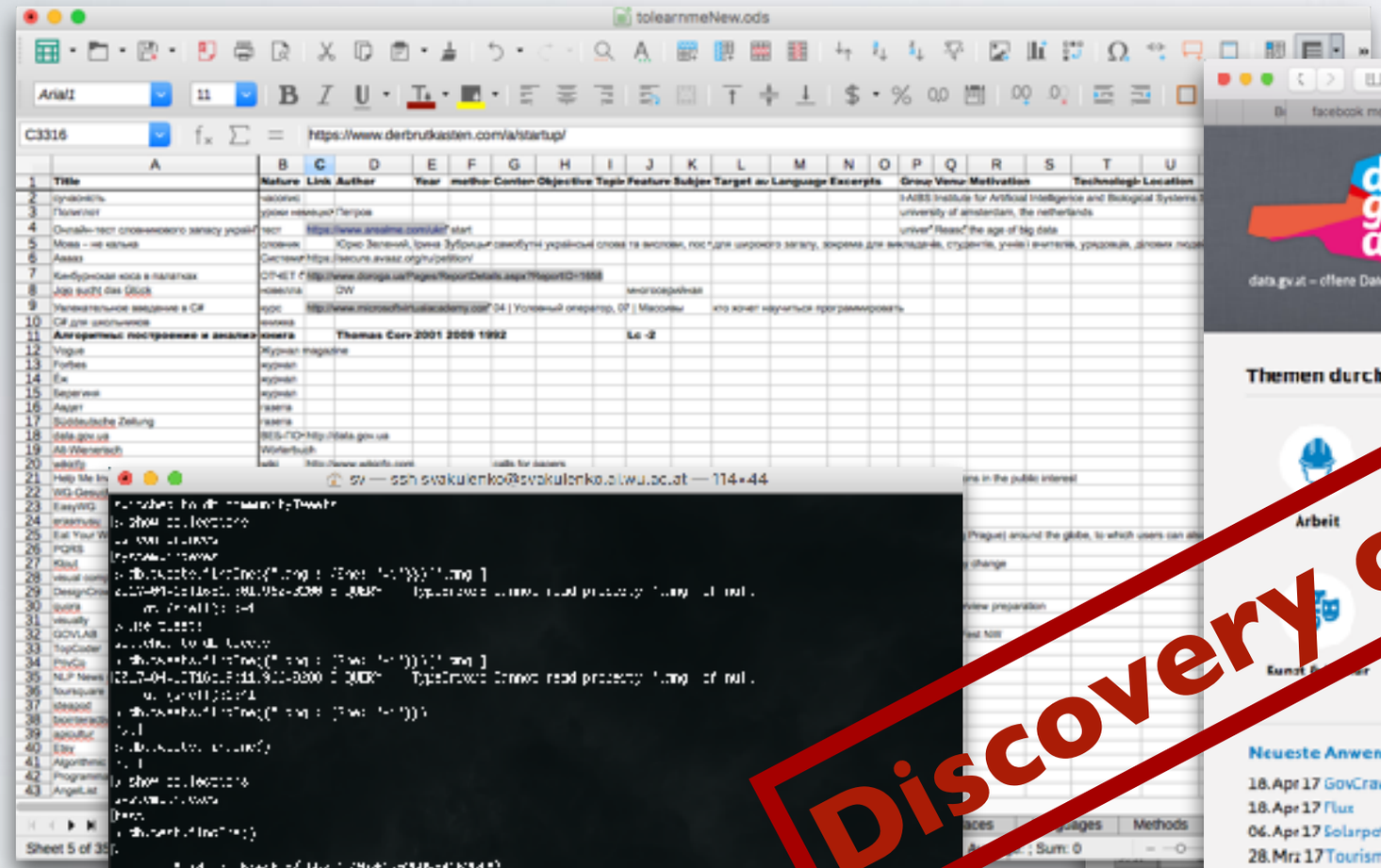
Big Data => Big Problems

Data Pain

Big Data => Big Problems

Data Pain

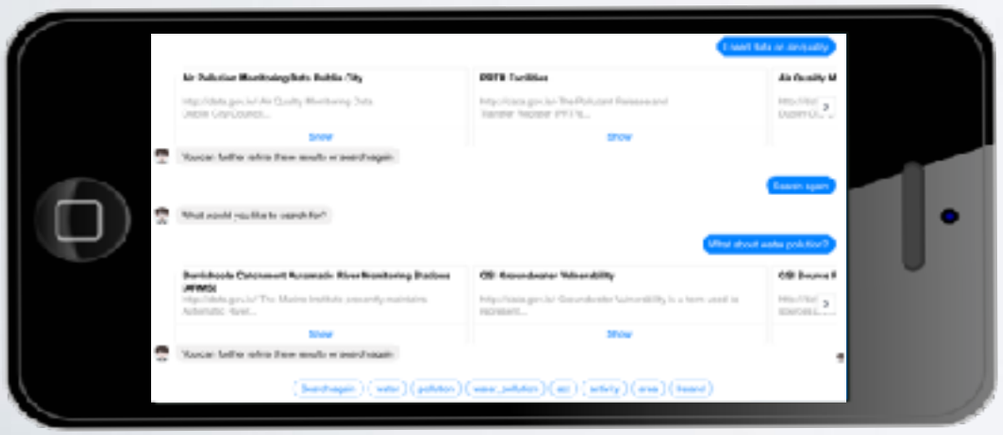
Big Data => Big Problems



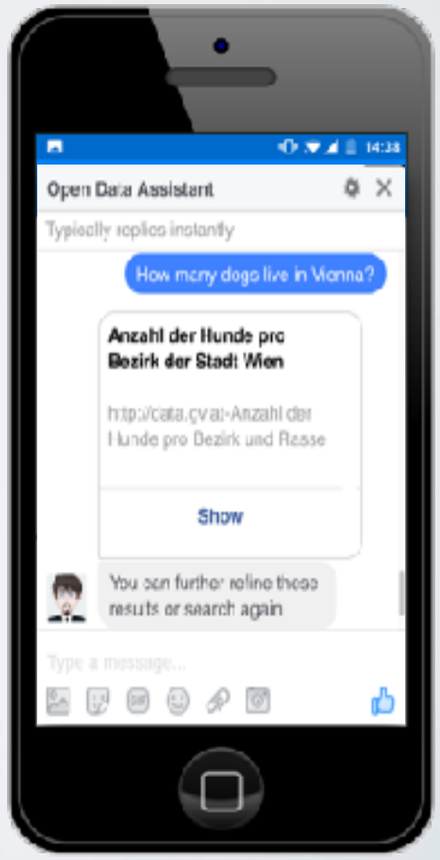
Discovery challenge

Our Solution
Open Data Assistant

Chatbot - dialogue interface (Neumaier et al., 2017)



Demo I



Sebastian Neumaier, Vadim Savenkov, and Svitlana Vakulenko. "Talking Open Data." *Extended Semantic Web Conference (ESWC)* (demo). 2017 (to appear).

Our Solution
QA on Tables
End-To-End Memory Networks (Sukhbaatar et al., 2015)

1 Row1 NUTS2 AT31
2 Row1 LAU2_CODE 40404
3 Row1 LAU2_NAME Braunau_am_Inn
4 Row1 YEAR 2015
5 Row1 INTERNAL_MIG_IMMIGRATION 808
6 Row1 INTERNATIONAL_MIG_IMMIGRATION 357
7 Row1 IMMIGRATION_TOTAL 1165
8 Row1 INTERNAL_MIG_EMIGRATION 607
9 Row1 INTERNATIONAL_MIG_EMIGRATION 186
10 Row1 EMIGRATION_TOTAL 793
11 Row2 NUTS2 AT31
12 Row2 LAU2_CODE 40405
13 Row2 LAU2_NAME Burgkirchen
14 Row2 YEAR 2015
15 Row2 INTERNAL_MIG_IMMIGRATION 138
16 Row2 INTERNATIONAL_MIG_IMMIGRATION 91
17 Row2 IMMIGRATION_TOTAL 229
18 Row2 INTERNAL_MIG_EMIGRATION 195
19 Row2 INTERNATIONAL_MIG_EMIGRATION 12
20 Row2 EMIGRATION_TOTAL 207

Demo2

21 What is the INTERNATIONAL_MIG_EMIGRATION for Burgkirchen? 12 13 19

Sukhbaatar, Sainbayar, Jason Weston, and Rob Fergus. "End-to-end memory networks." *Advances in neural information processing systems (NIPS)*. 2015.

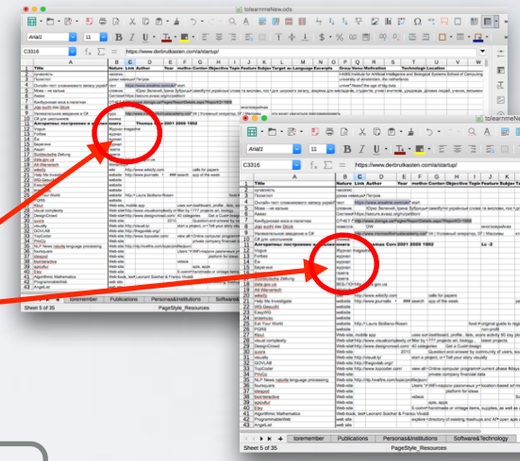
Our Customers: Data Pain

@Tobi What was our revenue last month?
How much did we sell last week?

Where did I save this table?
What was that SQL command?

Our Customers: Our Solution

slack



@Michi 25,670 EUR
200 stk.

@FranzI What was our revenue last month?
How much did we sell last week?

@Tobi Let's go have a coffee?

@Michi Sure thing!

https://m.me/OpenDataAssistant

Make data your friend!