



# IS SOLID READY FOR LOW-RESOURCE ENVIRONMENTS?

Presenter / Author: Wouter Kok  
Supervisor: Anna Bon

Aurora Research Conference Digital Society  
& Global Citizenship

# THE PROBLEM OF USER DATA

Big tech data silos

Analyzed to increase revenue

No data transparency as customer

No data ownership as customer



# SOLID (SOCIAL LINKED DATA)

Solid, a technological solution initiated by Sir Tim-Berners Lee, the creator of the web at MIT

Decentralized platform to bring back the user's control over their data

Scattered



Pod (Personal Online Datastore)





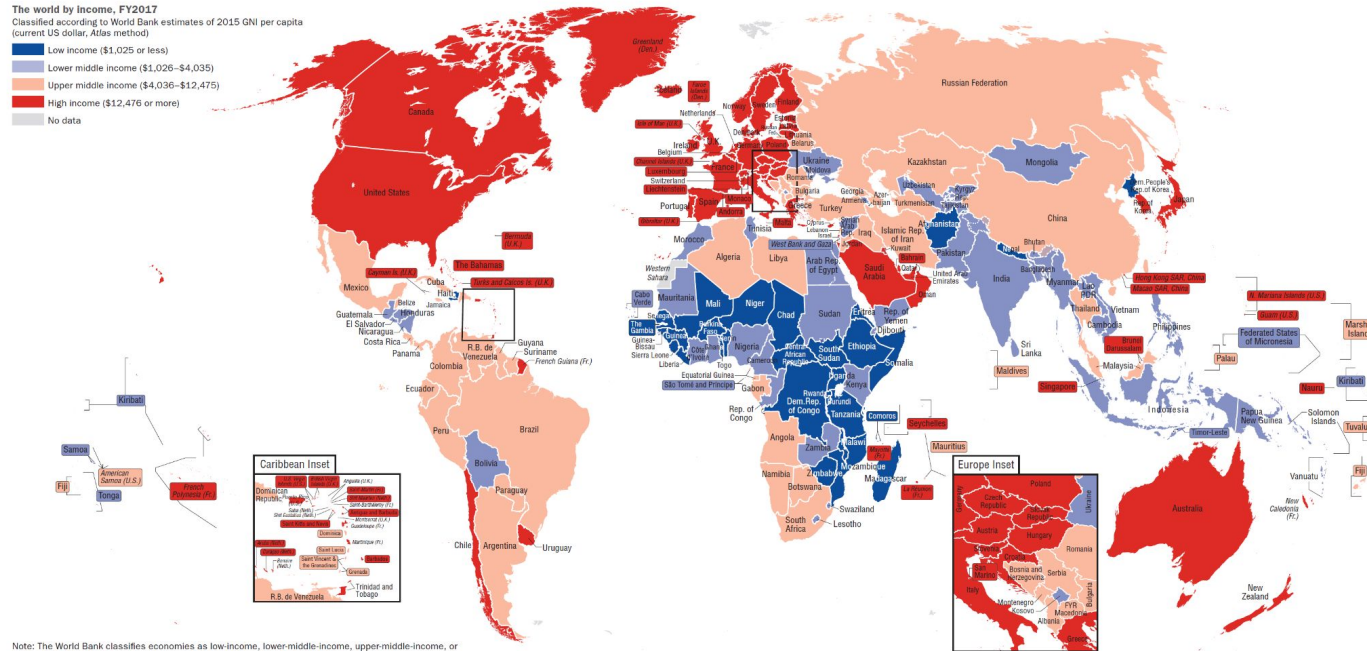
# LOW-RESOURCE ENVIRONMENTS

Environments that lack resources that we in Western countries view as commonplace

*Is Solid applicable in low-resource environments?*

The world by income, FY2017  
Classified according to World Bank estimates of 2015 GNI per capita  
(current US dollar, Atlas method)

Low income (\$1,025 or less)  
Lower middle income (\$1,026–\$4,035)  
Upper middle income (\$4,036–\$12,475)  
High income (\$12,476 or more)  
No data



Note: The World Bank classifies economies as low-income, lower-middle-income, upper-middle-income, or high-income based on gross national income (GNI) per capita. For more information see <https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups>.

# What can be done to increase the accessibility of Solid in low-resource environments?

<i>Goals</i>	<i>Method</i>
<b>What is the current state of Solid technology?</b>	Quantitative research 3 Interviews 1 Survey
<b>What are challenges for Solid in Low-Resource Environments?</b>	3 Interviews 1 Presentation
<b>Which devices are supported by Solid?</b>	Lab experiments on Laptop, Mobile and Raspberry Pi

# FIRST FINDINGS: CURRENT STATE OF SOLID

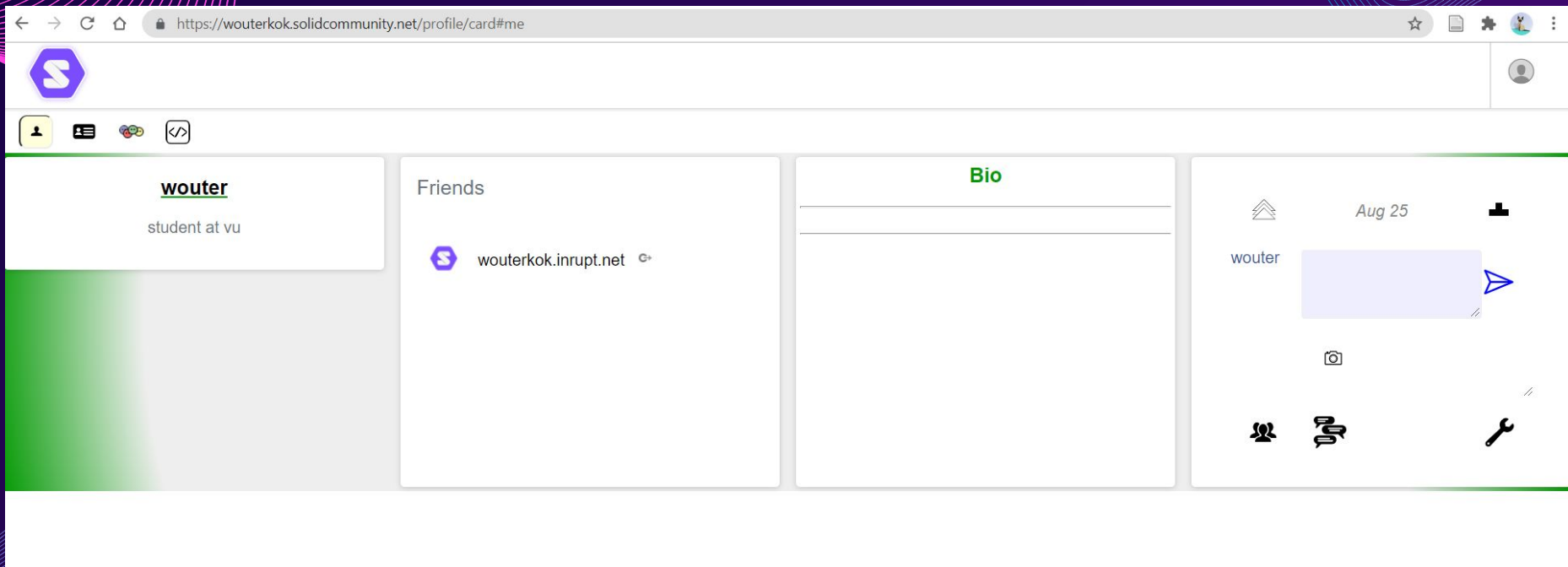
Early  
Development  
Core Functions

Need for more  
Solid Applications  
Low adoption of other  
applications  
Notepad, Media Kraken

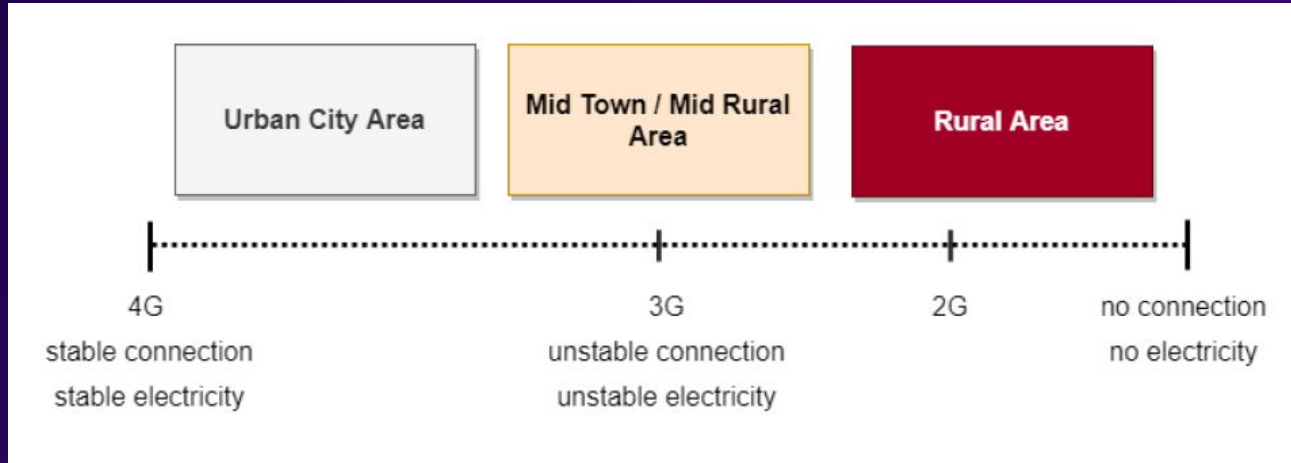
Not  
user-friendly  
Too technical focused  
Unclear user-interface  
Difficult developer  
experience



# User interface of a Pod



# FINDINGS: CHALLENGES IN LOW-RESOURCE ENVIRONMENTS



PC  
Popular languages

Mobile  
Rural languages



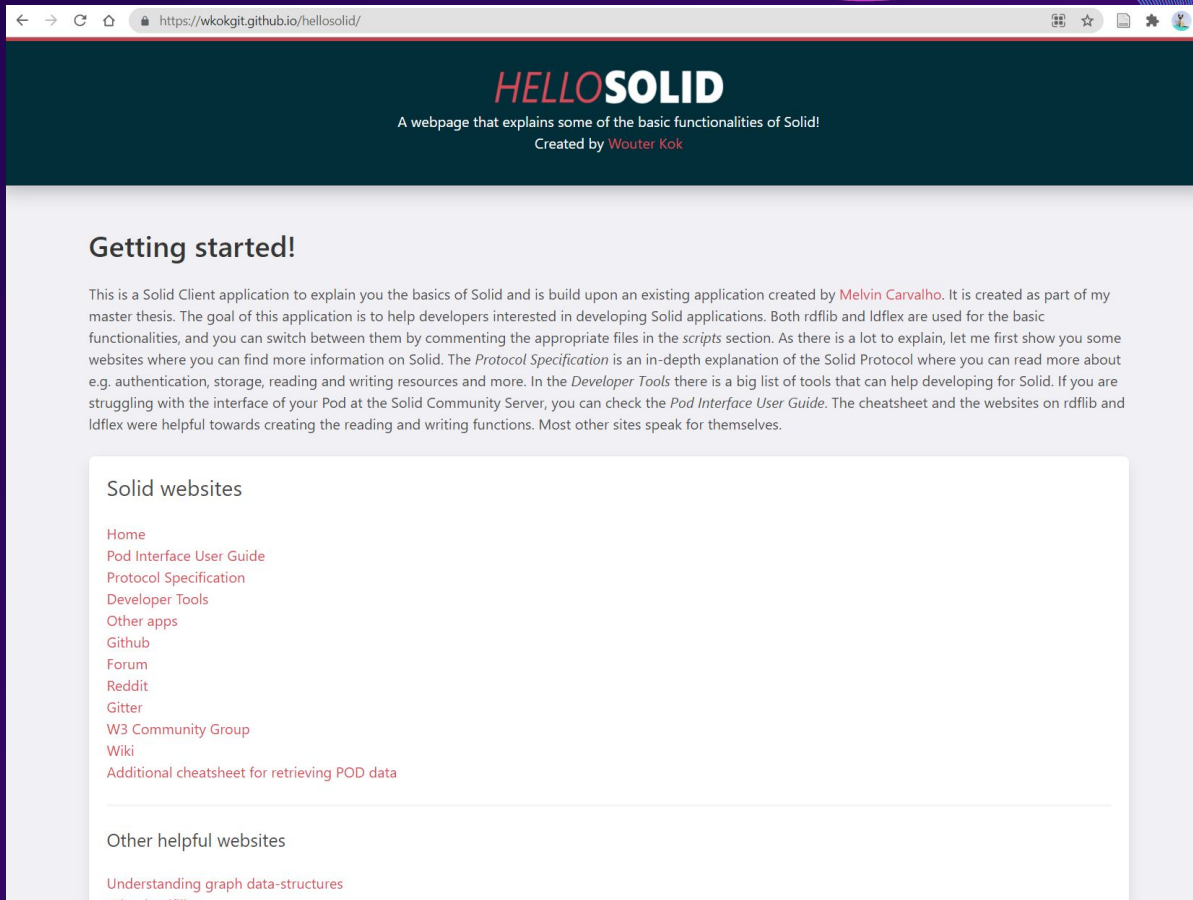
# LAB EXPERIMENTS

PC

Mobile

Raspberry Pi

Solid Application for  
developers



# Finally: Is Solid applicable in low-resource environments?

In its current state, Solid is not applicable in low-resource environments.

**What can be done to increase the accessibility of Solid in low-resource environments?**



Mobile Solid  
Pod Support



Offline-First  
Support



Multilingual Support



User-Friendly



Collaborations



# Thanks for listening!

Do you have any questions?

wouterkok96@hotmail.com  
0652697207

CREDITS: This presentation template was created by  
**Slidesgo**, including icons by **Flaticon**, infographics &  
images by **Freepik**