

EBU MDN Workshop



Paul-Armand Verhaegen 7 june 2016

Overview



Transition to a data-driven economy

- 1. Media production processes become more data-driven
- 2. VRT data project

Me



Paul-Armand Verhaegen (fallback for Mike Matton)

- Data scientist / engineer, architect, developer, researcher, MBA, maker/hacker
- Worked at:
 - IT architect & developer in start-up
 - Mgt consultancy in telecom
 - Universities as data scientist post-doc
 - Now Data scientist / engineer at VRT O&I

Disclaimer: No media background



Transition to a data-driven economy



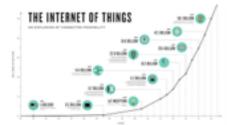




Finance Retail_

Connected cars







Bioinfo



Platform Data Analytics Actions

Transition to a data-driven economy



Where is the media?



Platform Data Analytics Actions

History



- Data is a cost and driven outside VRT
- Pressure (Netflix, Youth, ...) -> Mindset is changing
- Different projects emerged/ing
 - Heartbeat: data
 - Providence(+): data / analytics
 - Sandbox projects like SmartOcto: 1st steps towards actions
 - Habit:at
 - data personalisation: actions (recommendations)
 - market understanding (together with research service)
 - clustering: analytics
 - dashboard support for production: analytics / actions



Which data

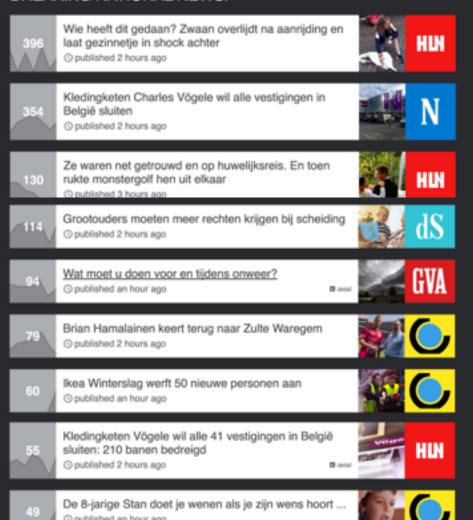


- meta-data
 - tech: camera, codec, ...
 - content: what? ...
 - admin: who made it? rights, ...
- user
 - profile
 - context
 - interaction
 - •
- external data
 - weather
 - ...



Heterogeneous Mismatch Missing

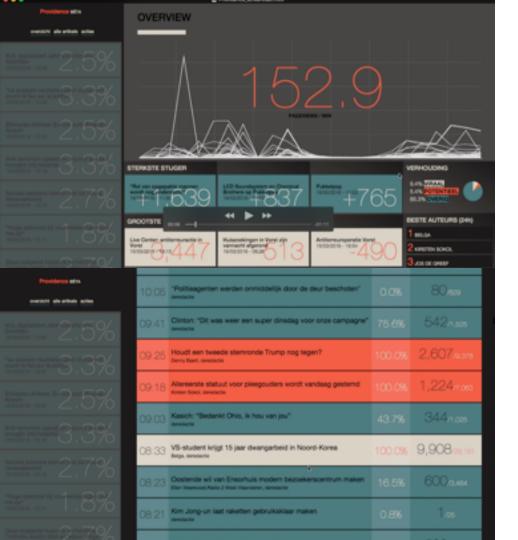
BREAKING NATIONAL NEWS.





Heartbeat:

http://vrtprovidence.projects.bitsoflove.be/
#/de-redactie/s/national





- Providence:
 - Explanation video
 - Screencast

Providence BETA

overzicht alle artikels acties

OVERVIEW



STERKSTE STIJGER

"Rol van opgepakte mannen wordt nog onderzocht" 16/03/2016 - 11:55

LCD Soundsystem en Chemical Brothers op Pukkelpo

Pukkelpop 16/03/2016 - 11:03

9.4% VIRAAL

VERHOUDING

5.4% POTENTIEEL 85.3% OVERIG

BESTE AUTEURS (24h)

GROOTSTE DALER

Live Center; antiterreuractie in 15/03/2016 - 18:13/

Huiszoekingen in Vorst zijn vannacht afgerond 16/03/2016 - 06:38

Antiterreuroperatie Vorst 15/03/2016 - 19:54

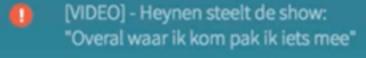
BELGA

2 KIRSTEN SOKOL

3 JOS DE GREEF

3.190.127.185/#/overview





Your story is catching waves on Facebook. But where are you? Post the story now.

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- SmartOcto:
 - Screencast
 - Actions





co habit:at

- Habitat:
 - KPIs
 - Architecture
 - Demo

KPIs



1. Overall

- 1. # clicks on recommendations
- 2. # watched recommendations
- 3. Variety in viewed & watched content categories
- 4. # minutes / user

2. Per user

- 1. Variety in categories (anti-bubble)
- 3. Per content item
 - 1. # users clicked/watched
 - 2. # minutes viewed

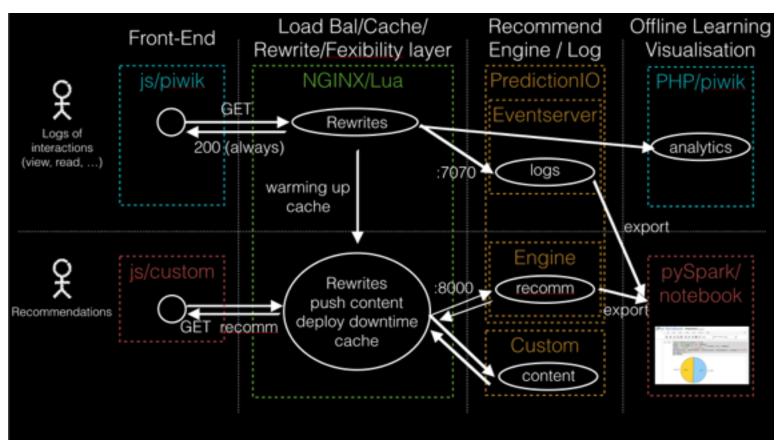
Algorithms



- 1. Collaborative
 - 1. user-user
 - 2. item-item
- 2. Content
 - 1. meta-data
 - 1. tech
 - 2. content
 - 3. admin
 - 2. other sources, language from video, NLP, ...



Architecture





cohabit:at

- Habitat:
 - Architecture
 - KPIs
 - Demo