SIOUX: WHAT WE DO
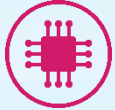
- International technology company with >450 employees
- R&D and manufacturing of (sub)systems and equipment (one-stop shop)

SIOUX
SOURCE OF YOUR TECHNOLOGY

PRIME
DATA
We bring sense to data

ELECTRONICS
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SIOUX: WHAT WE KNOW

- Semicon & Solar
- Life Science & Health
- Automotive
- Traffic, Transport & Infrastructure
- Consumer Electronics & Telecom
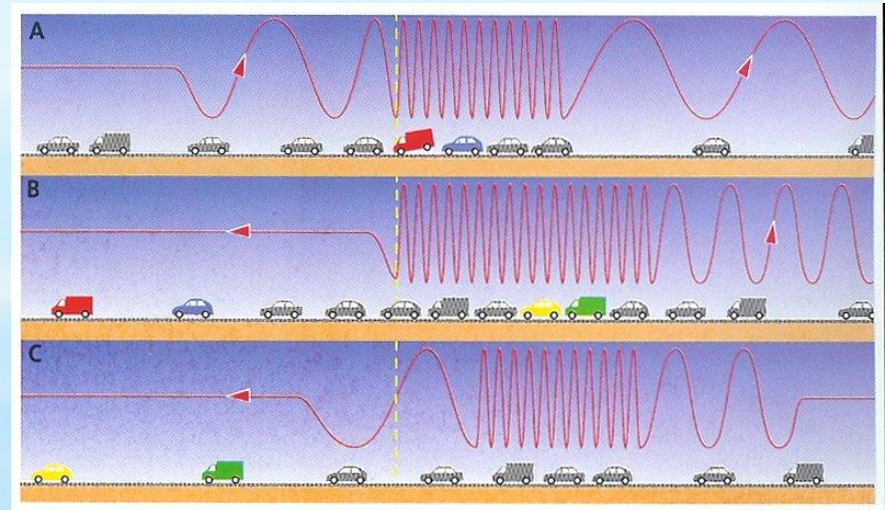- Image & Printing
- Agro & Food

WHAT ARE SPOOKFILES?

- Drivers brake or change driving lanes

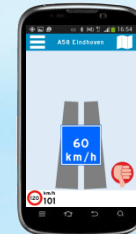- 30% to 40% of the A58 traffic jams are shock wave traffic jams, at other roads ~20%

- Project goal is to reduce the lost hours due to traffic jams

WHAT IS THE SERVICE?

- Optimal speeds are calculated based on traffic

- Driver receives the advice speed on Smartphone
- Driver is alerted upfront for traffic jam

- Currently via 3G after summer also via roadside
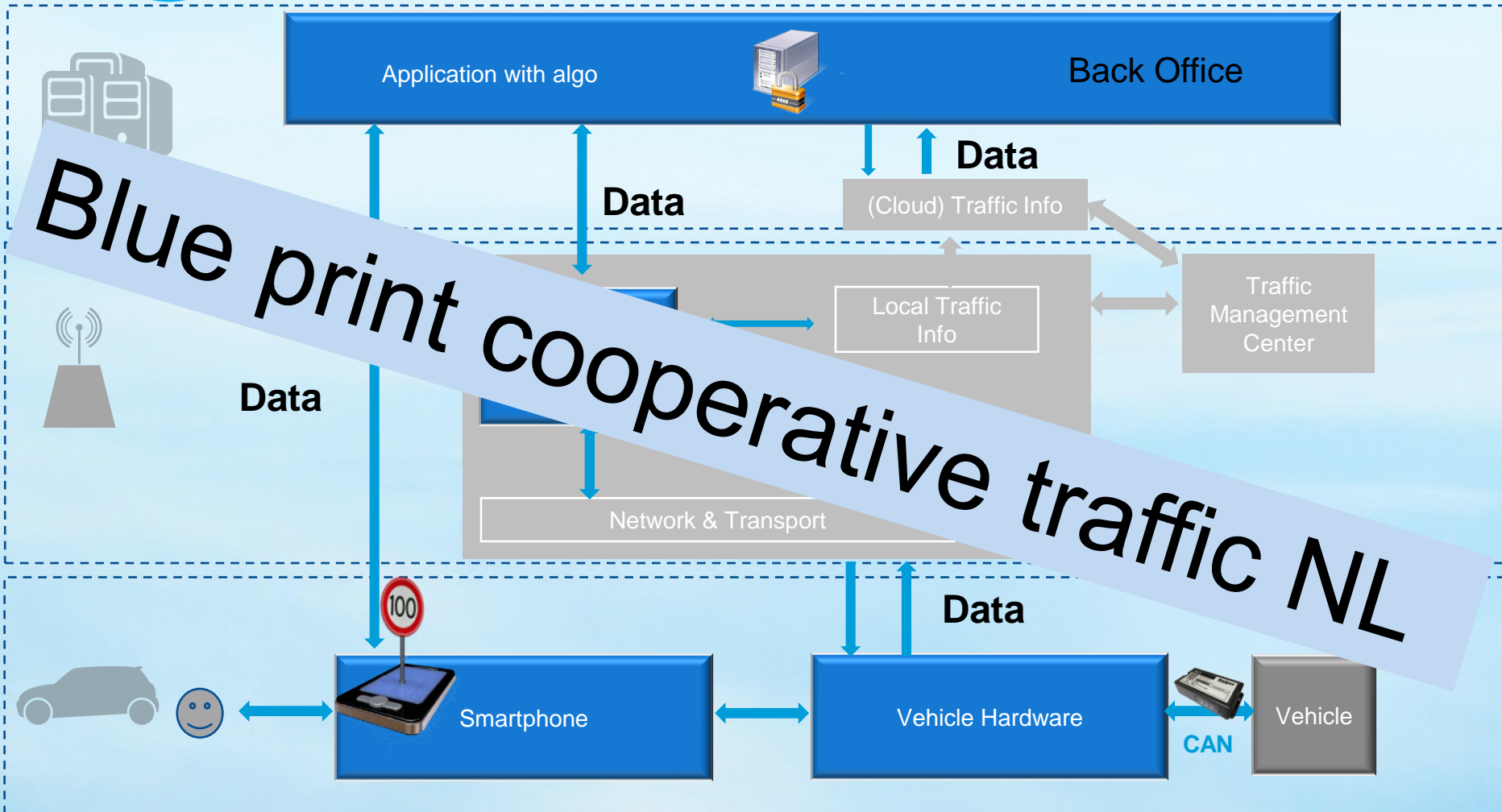
PRIME DATA: INTRODUCTION

TNO & Prime Vision established
Prime Data

- 24/7 hosting of mathematical models
- Reliable/ enriched data & information feeds
- Inside knowledge models of TNO
- From concept to managed business service

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PRIME DATA: GOALS

- Delivery of High quality decision making information
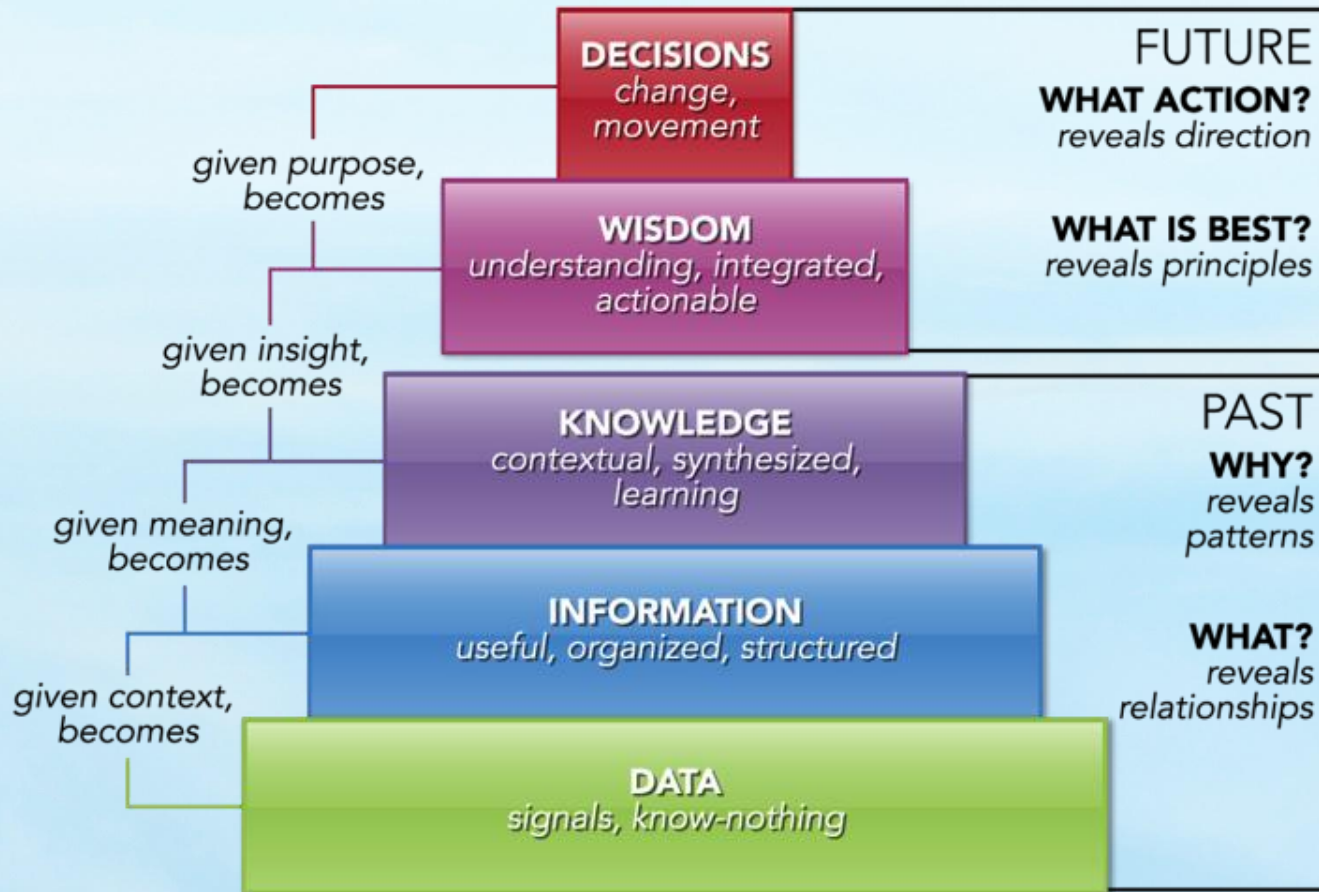
- Enterprise middleware platform / datafeeds, middleware apps

- Unburden the companies which want to provide services to third parties

FROM DATA TO DECISIONS

TECHNICAL DEVELOPMENTS

- TimeAlyze (= traffic models)
  - Traffic jam detection on highway and secondary road networks
  - Algorithms in the cloud
  - Application to consumers and logistics
  - Decision making information

- LocAlyze (= acquisition of FCD)
  - Privacy sensitive data acquisition
  - Anonymized input for TimeAlyze

- AnySense
  - Manufacturer - independent sensor data acquisition
  - Anomaly detection

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Business Services

Prime Data
Cloud Enterprise Data Management Services

- predictions as a service
- sensor data as a service
- traffic density as a service
- traffic info as a service
- map matching as a service
- anomaly detection as a service
- data handling as a service
- ...

Prime Vision
Cloud Enterprise Application Management Services

- webcoding as a service
- SBS as a service
- OCR as a Service
- batchcoding as a service
- Collo image archive
- ...

Main current PD Services

Current PV Services

Managed hosting services

Single Tenant Shared services
Internet connected services
Services are shared
$ Pay per Use

Multi tenant Private services
Internet and or Managed Line connected services
Service buildingblocks are shared
$ Baseline + Pay per Use

Local Private Services
Customer Network
Service Buildingblocks are shared
$ resources are dedicated

Core Prime Group Capabilities

- Real time Analytics
- Recognition
- Knowledge discovery
- Realtime Message Handling
- Predictive analysis
- Factory Automation
- Sensor Analytics
- Coding
- Decision Handling

Prime Group Support

Platforms

Azure/Amazon/Google
Productized cloud
- SAAS
- PAAS
- IAAS

Combination of Productized and challenging platform

Datacenter Hosting provider
Challenging cloud
- PAAS
- IAAS

Appliance provider
local cloud
- Virtual appliance
- Physical Appliance

Becoming a PostNL CSP and get connected to Future Network!

Hybrid PV cloud utilize shared resources and dev.

Hosted environment Legacy, support and Legal wise Fallback

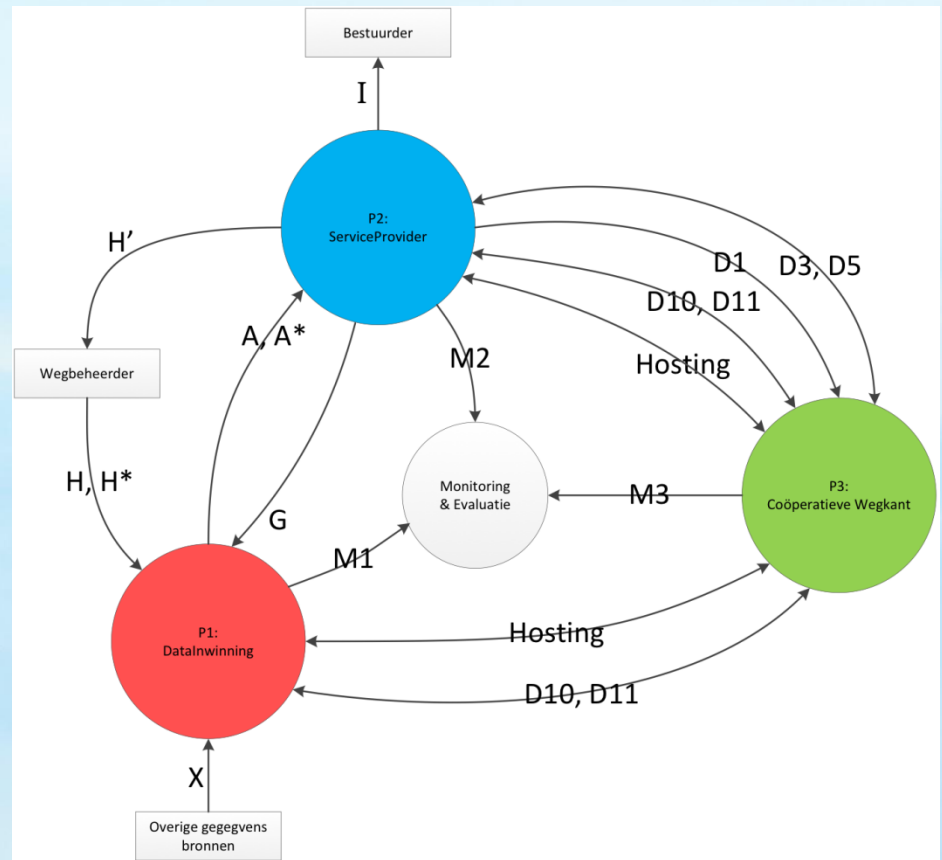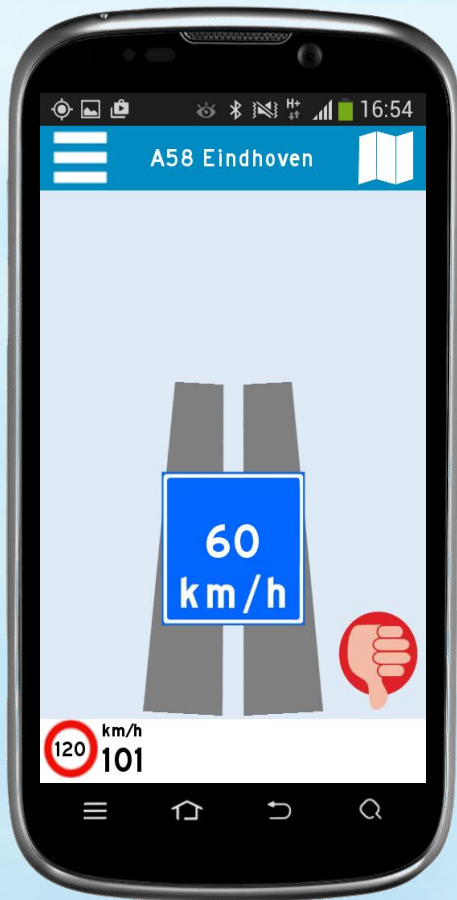*Hosted environment support and Legal wise.*

BEHIND THE SCENES

- (traffic) (big) Data acquisition
- Data fusion
- Real-time analytics models
- Routing and informing
- Intervene on disturbances
  - Accidents
  - Weather
  - Road works
  - …

SPOOKFILES A58

FROM INPUT TO OUTPUT

- Input:
  - Traffic states
  - Segment states

- Shockwave damping:
  - Generating speed advice based on actual and predicted situation on the road

- Output:
  - Speed advice per driving direction

FACTS EN FIGURES ON A58

- ESB messages:
  - 600-800 per second current (connected)
  - 1500-2500 per second near future

- Input data:
  - ± 1 Mbyte per second = ~84 GByte per day

- Enriched data:
  - ± 3 Mbyte per second = ~253 GByte per day

- Smartphone data
  - ± 360 messages per hour per phone

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ELECTRONICS
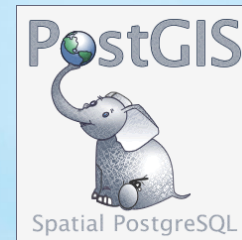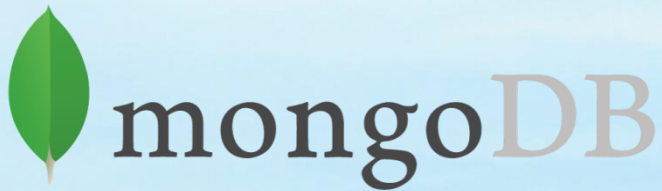&AUTOMATION
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SUMMARY

- Generic platform
- Scalable / cloud based
- Generic observations
- Data structuring in time and space
- Data interpretation
- Linked to real-time analytics logic/models
- Decision making

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TECHNOLOGIES

QUESTIONS?