Aquasuite FLOW op ATS Venray

CoP Capwat

Raymond de Wit, Christof Lubbers
21 maart 2017
Open

Inleiding

Asset Management

- Waarom ?
- Pilot Venray
- Beschrijving module FLOW van Aquasuite
- Voordelen voor Waterschappen
- Discussie en vragen

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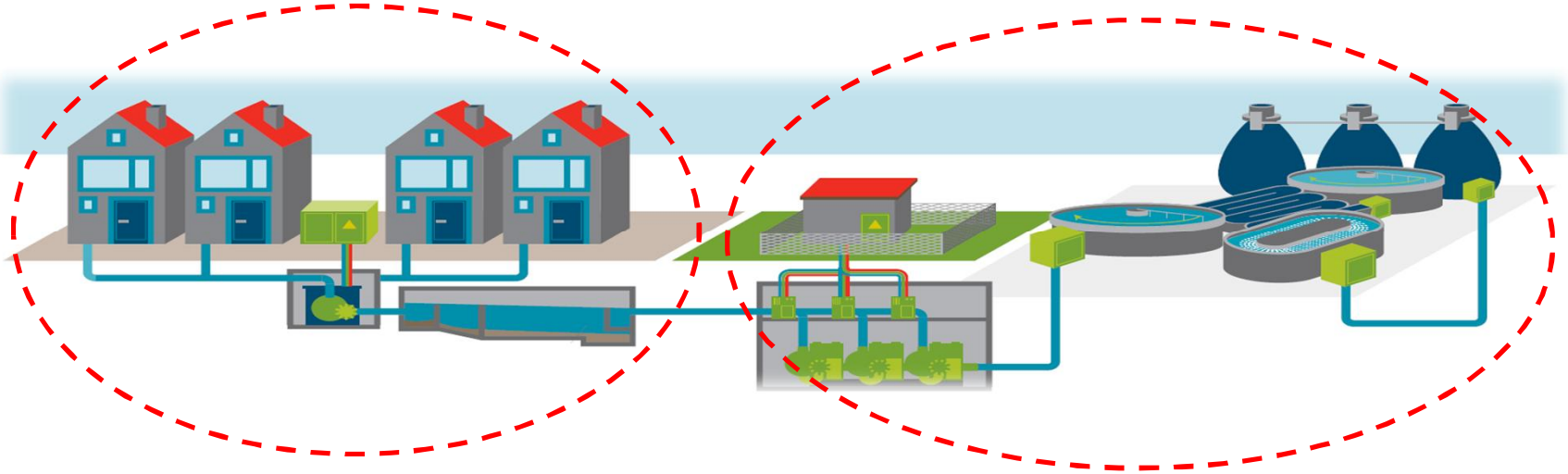
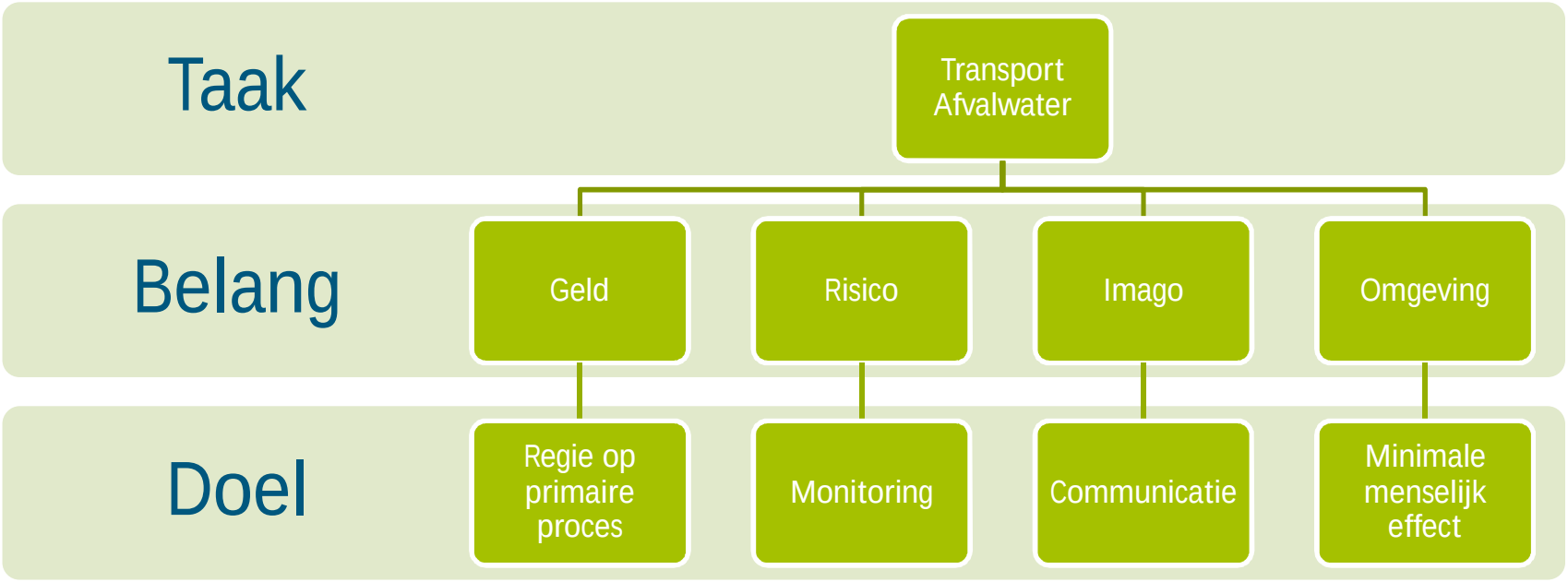
Wettelijk zorgplicht

- Gemeente zamelt afvalwater in
- Waterschappen transporteren en zuiveren het afvalwater



Asset Management



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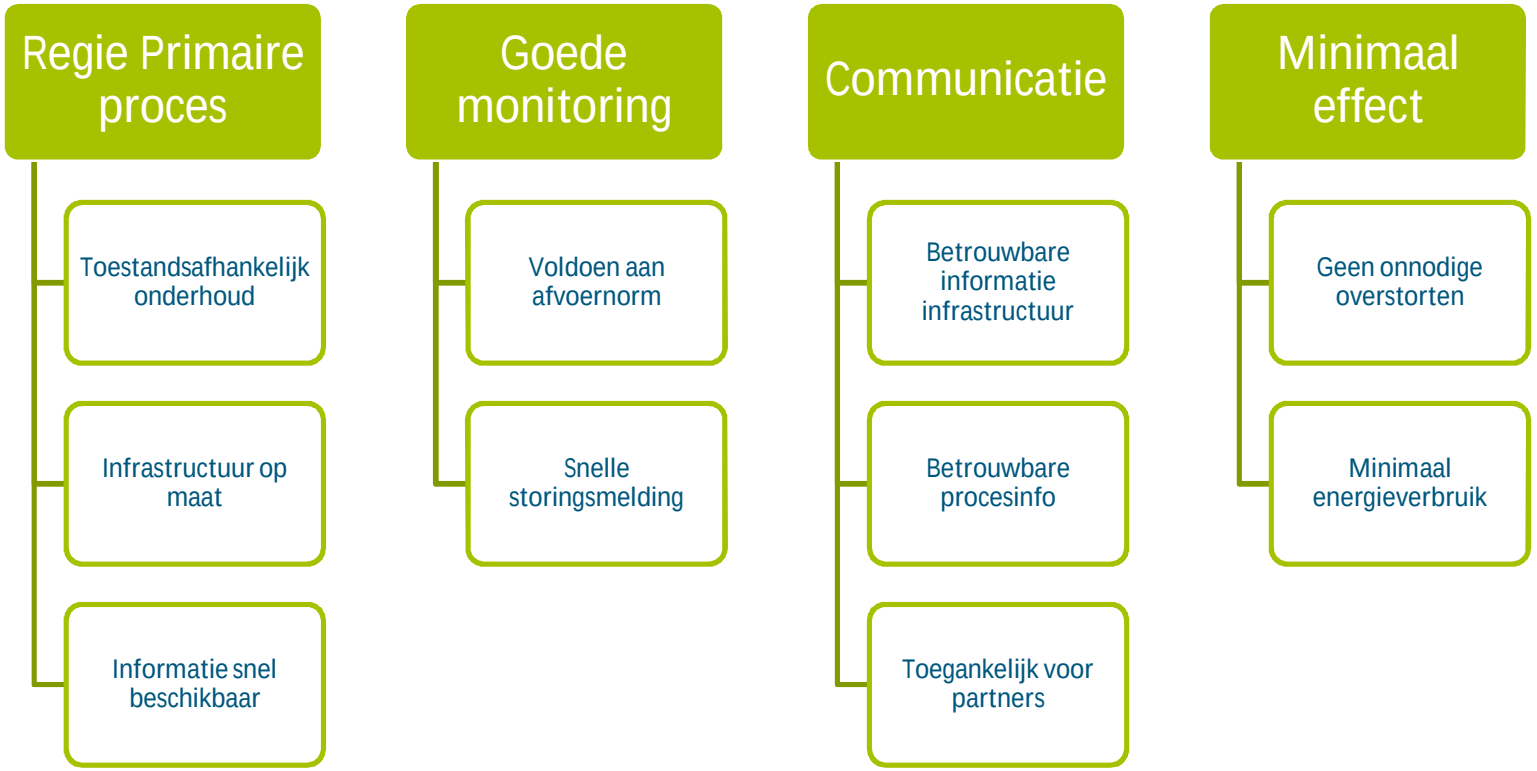
Doelen



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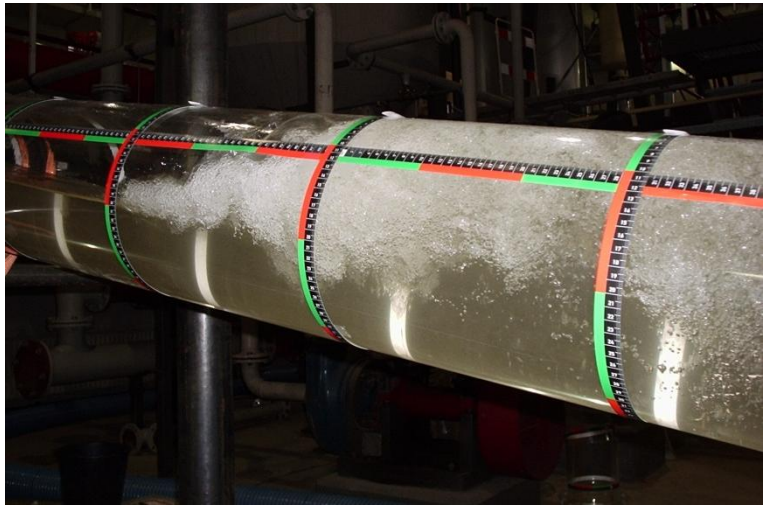
De Praktijk



Pilot Venray

Belang Waterschapsbedrijf Limburg

- WBL heeft beheer over 1000 gemalen
  - Eigen en gemeentelijke
  - Tegen laagste kosten uitvoeren

Doel Pilot

- Implementeren Aquasuite FLOW op ATS Venray
- Bepalen prestatie van het ATS
- Is het huidige data-acquisitie systeem geschikt voor analyse
  - Werkt het voor alle gemalen?
  - Gemalen met alleen aan/uit signaal en kelderpeil

Waarom Venray?

- 7 gemalen op 1 persleiding
- WBL: “Als FLOW het hier goed doet, werkt het overal”

Aquasuite FLOW is powered by Deltares

Royal HaskoningDHV
Enhancing Society Together

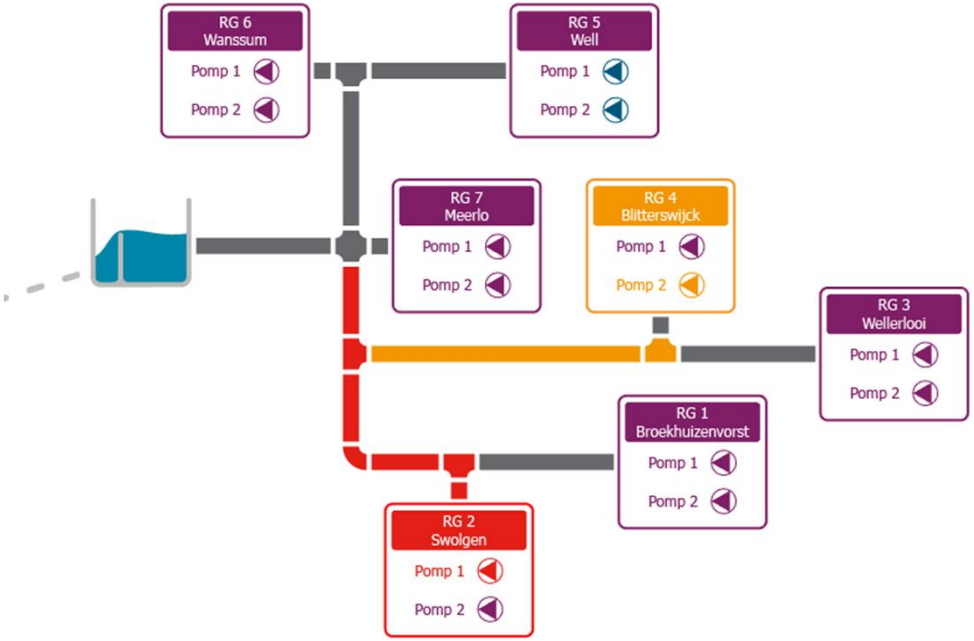
Deltares
Enabling Delta Life

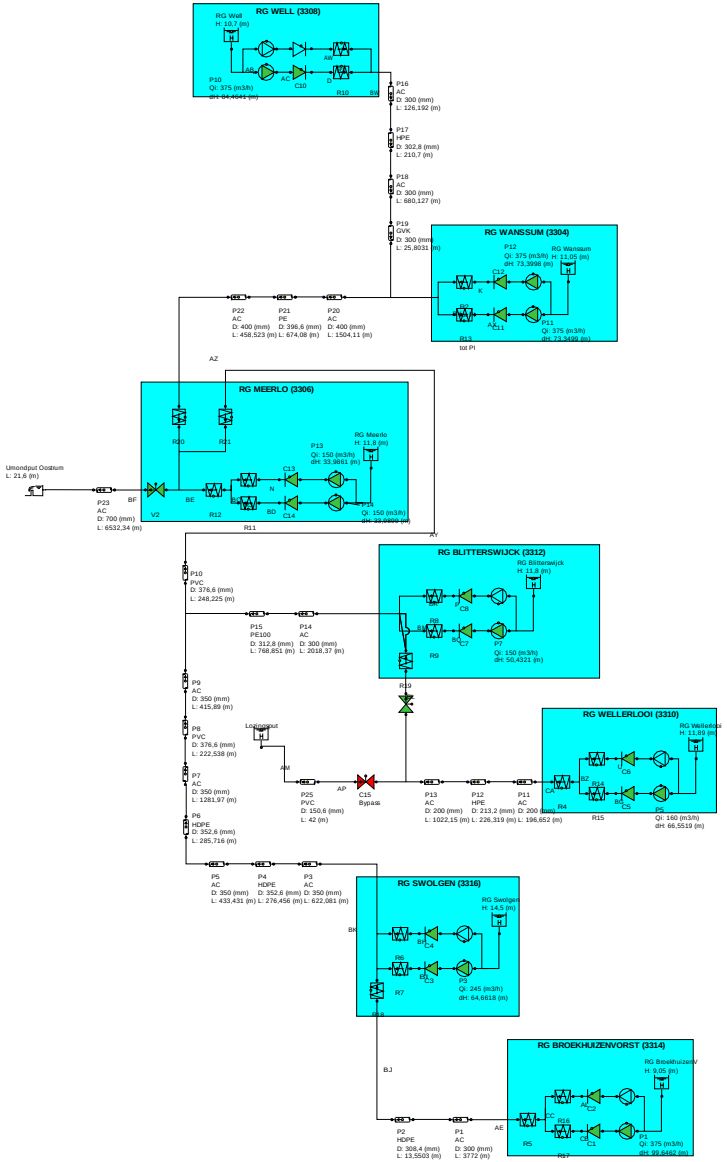
Aquasuite®

Wanda Liquid

FLOW by Aquasuite®
a product of Royal HaskoningDHV

Powered by Deltares





Voordelen van samenwerking

- Meest nauwkeurige berekening
- Analyse van samengestelde transportsystemen
- Makkelijk onderhoudbaar
- Eenvoudig uitbreidbaar

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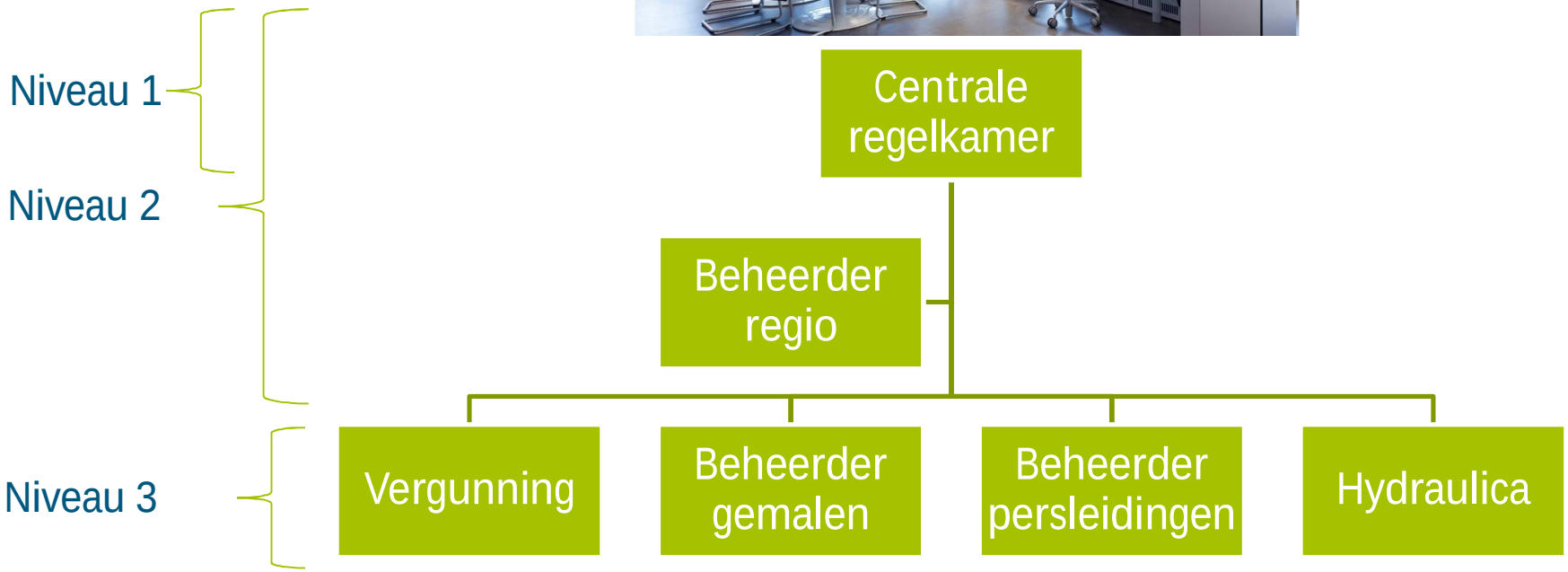
Informatie op maat



- Niet iedereen heeft alle informatie nodig

Overzichtsdisplay

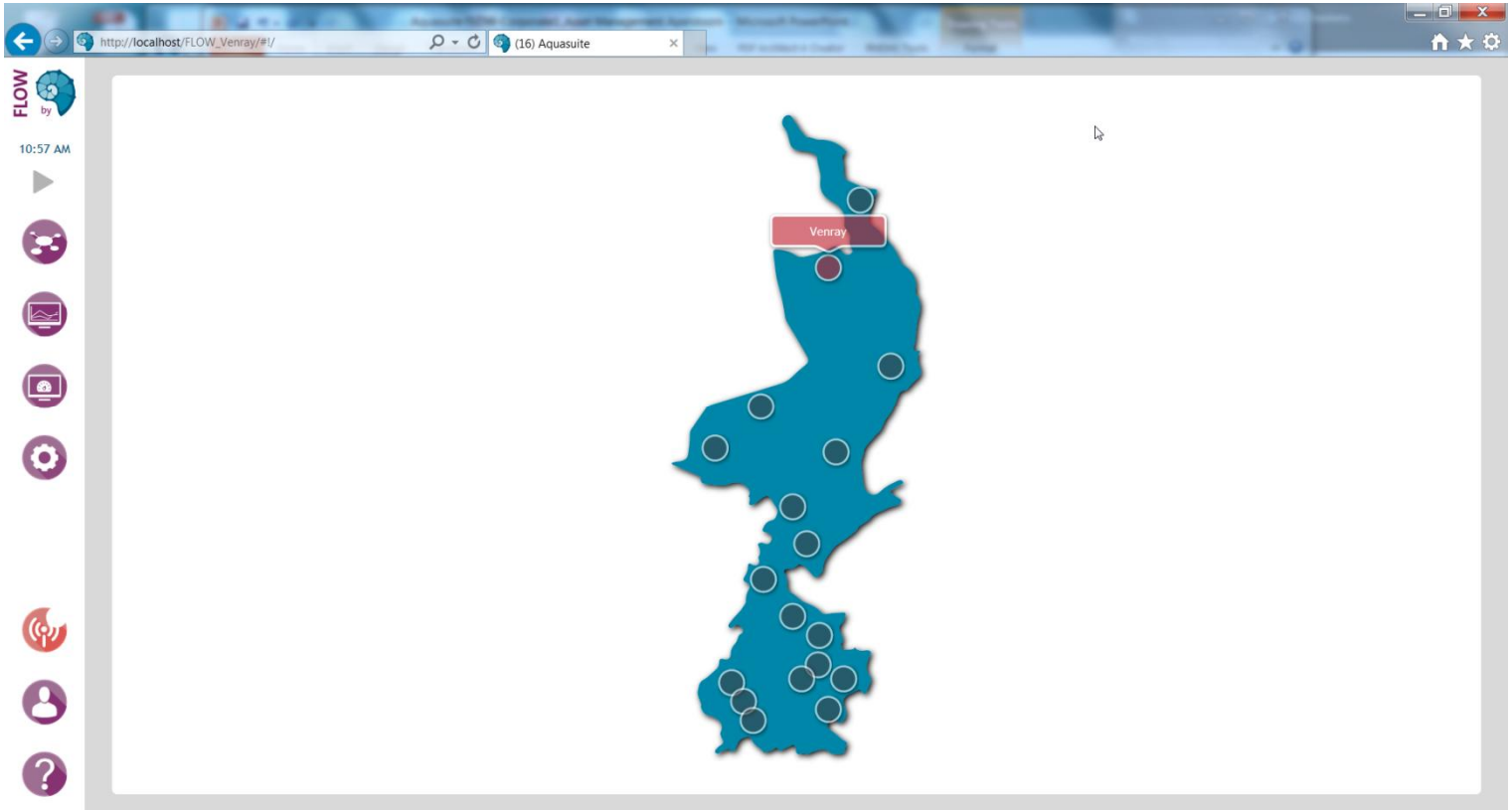
Imago

Risico

Geld

Niveau 1: Overzicht WBL

- Niveau CRK (centrale regelkamer): Voldoen de systemen aan afvoernorm (melding regio)



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Overzichtsdisplay

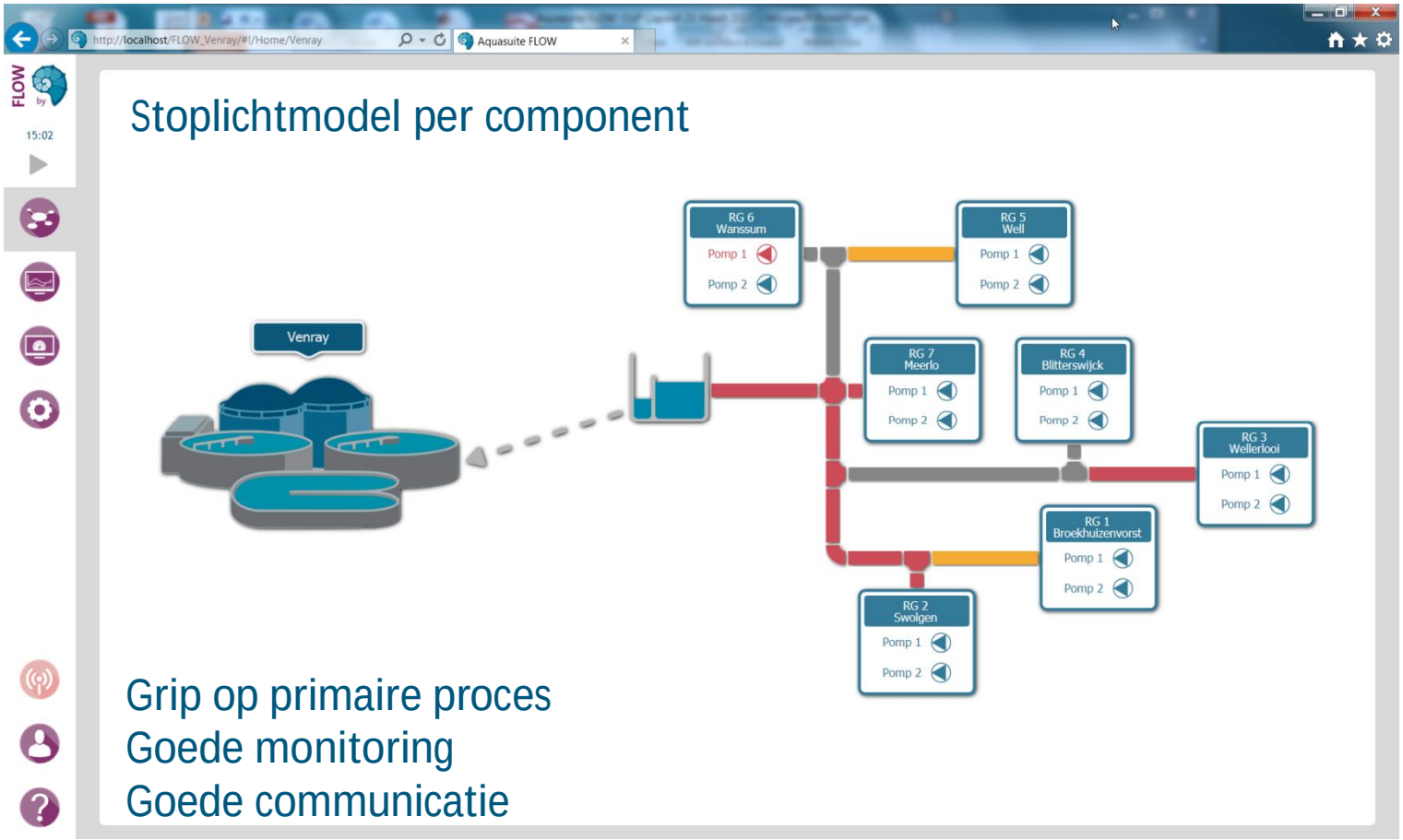
Geld

Risico

Imago

Niveau 2: Overzicht transportsysteem

- Niveau : CRK (regelkamer) ➔ beheerder (melding component)



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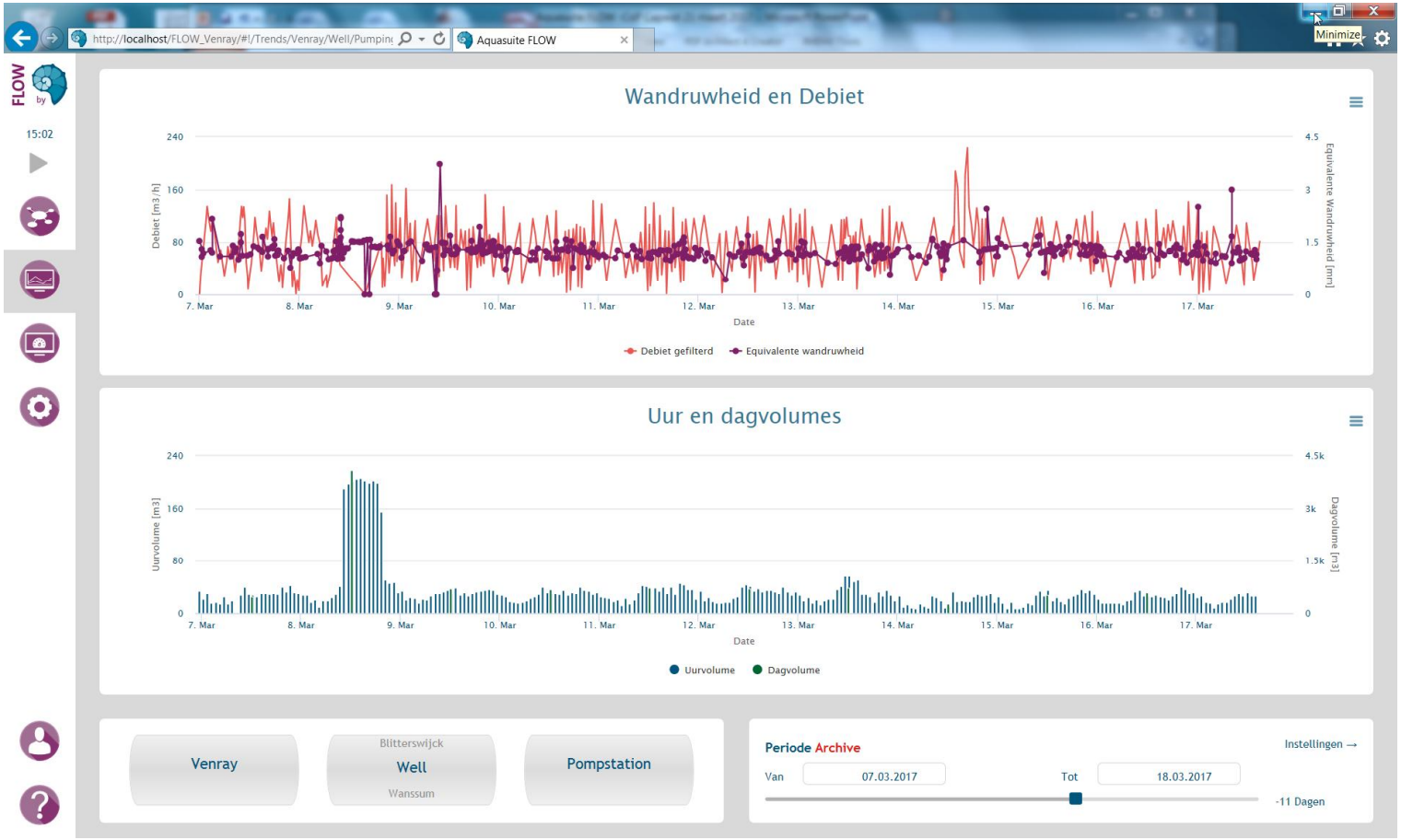
Trends

Geld

Risico

Niveau 3 (beheerder): Onderbouwing



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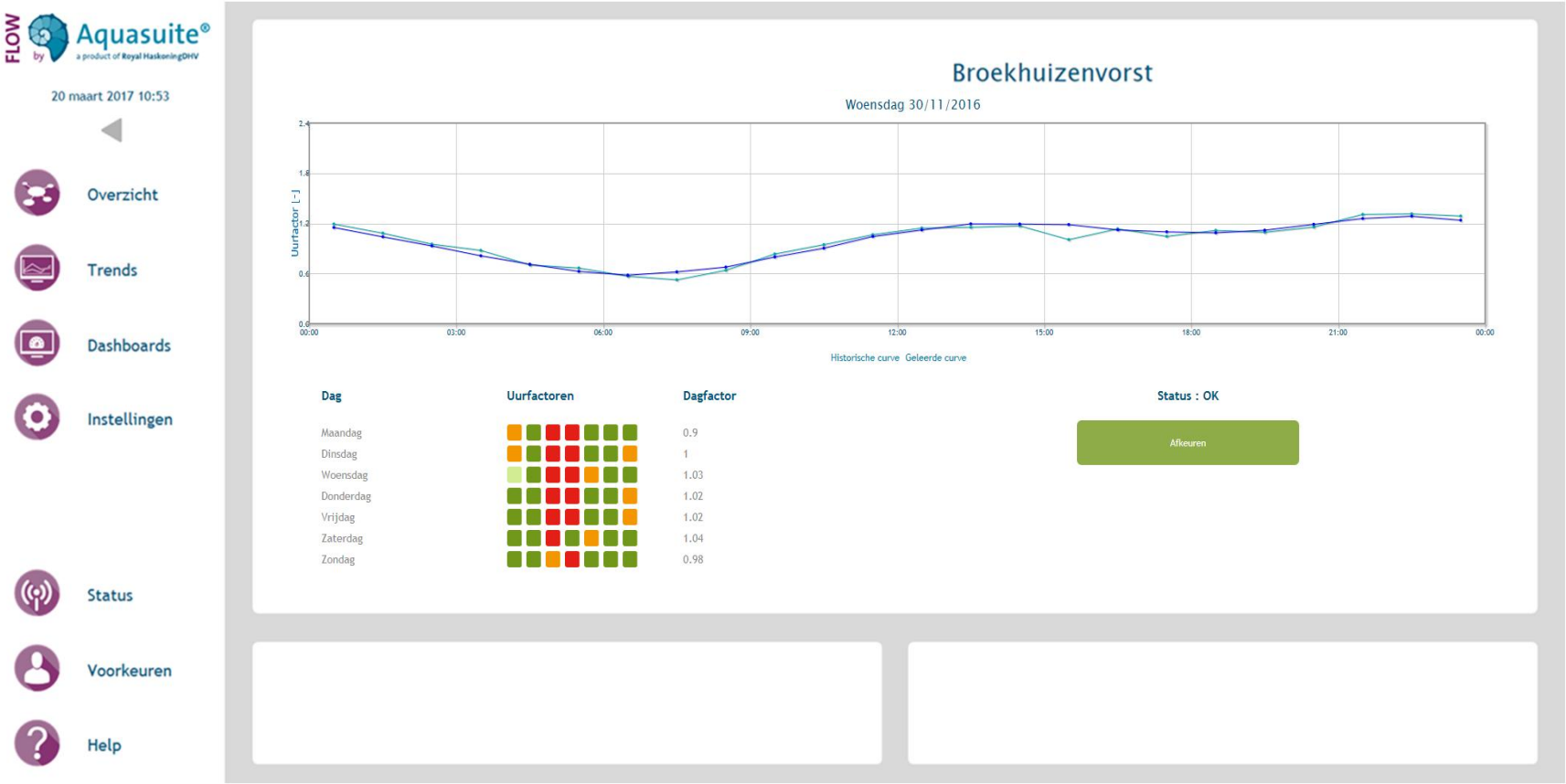
FLOW aanvoer

Geld

Risico



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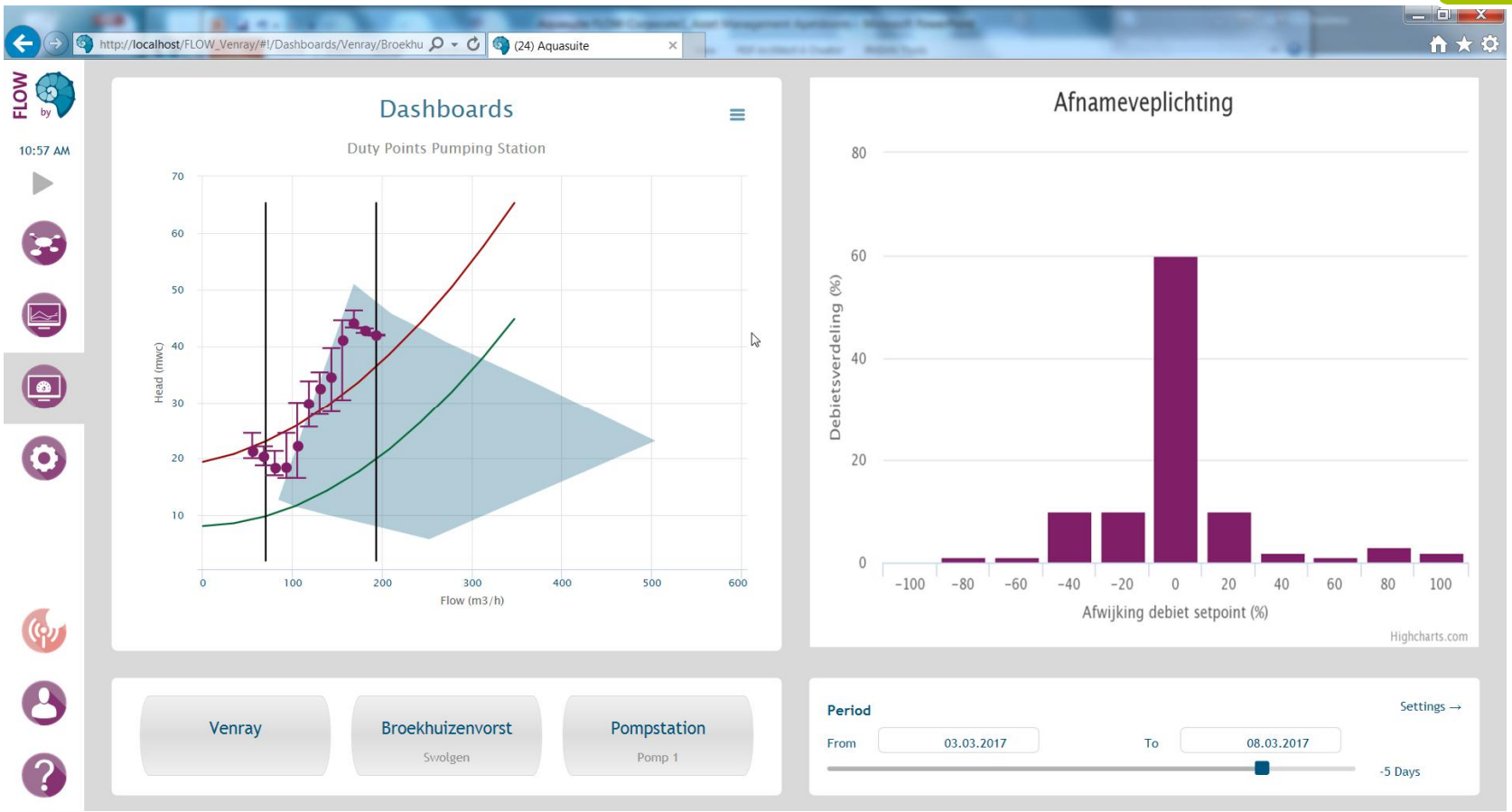
Prestatie gemaal

Geld

Risico

Niveau 3 (beheerder) : Onderbouwing



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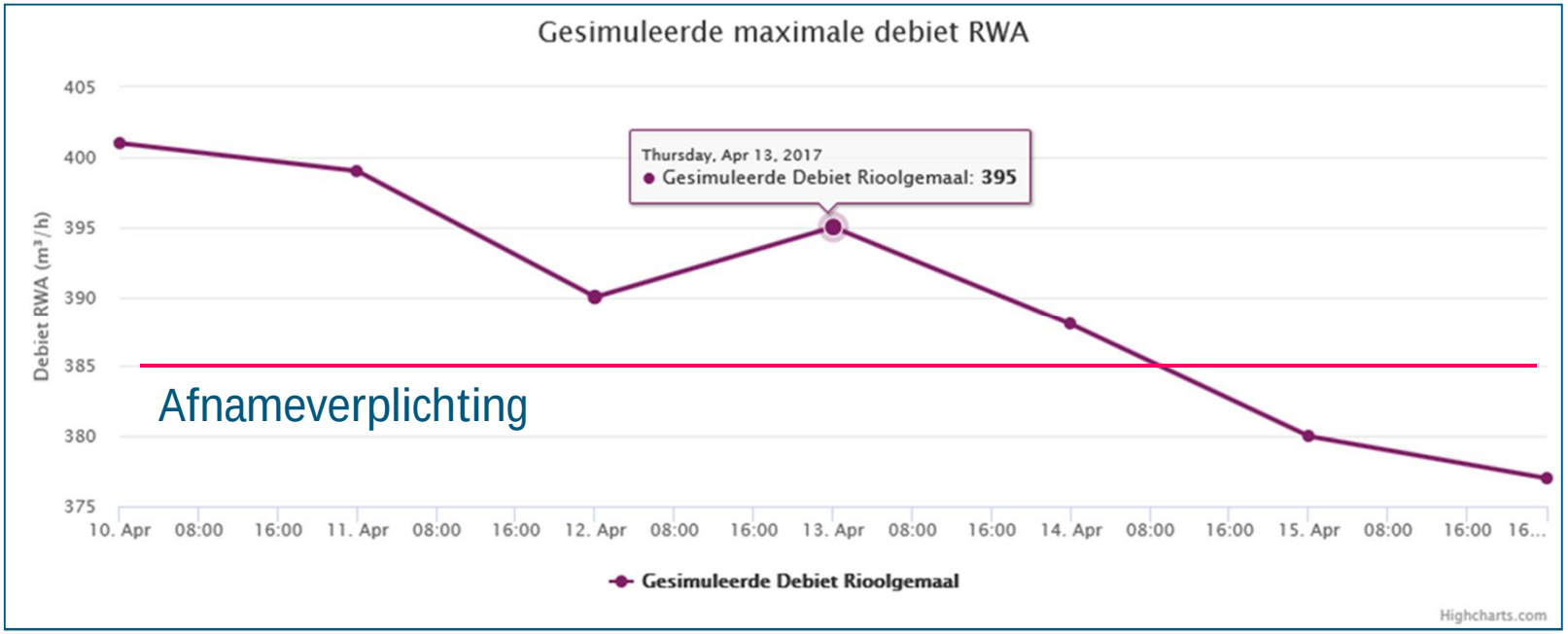
Voorspelling max. afnamecapaciteit

Geld

Risico

- Bepaling op basis gemiddelde k-waarde van de dag
- Berekening met wandamodel



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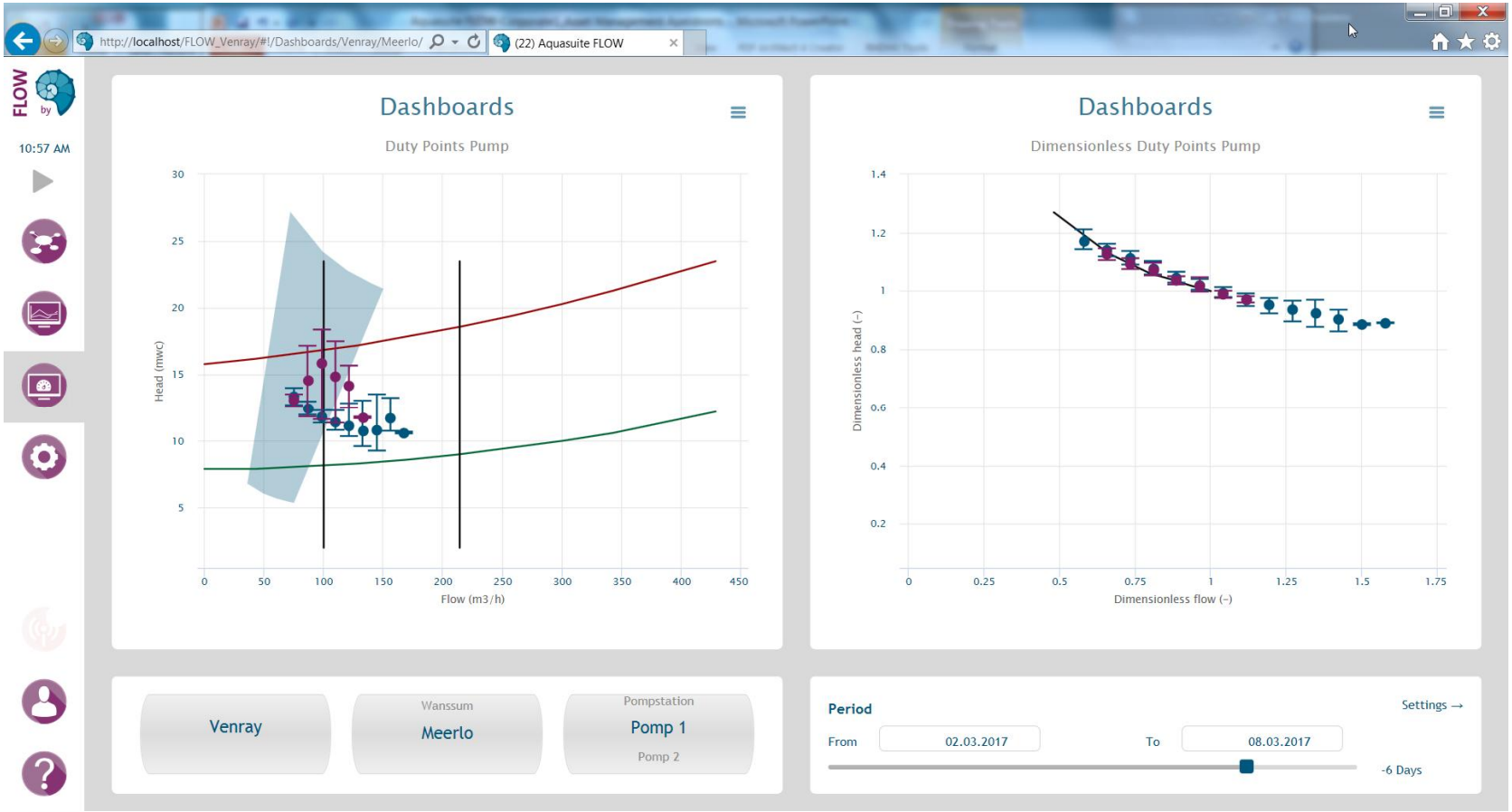
Prestatie pomp

Geld

Risico

Niveau 3: Onderbouwing



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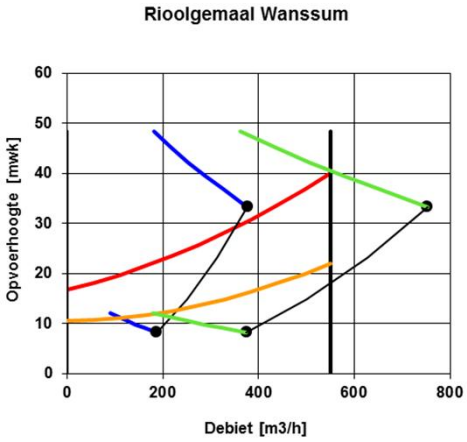
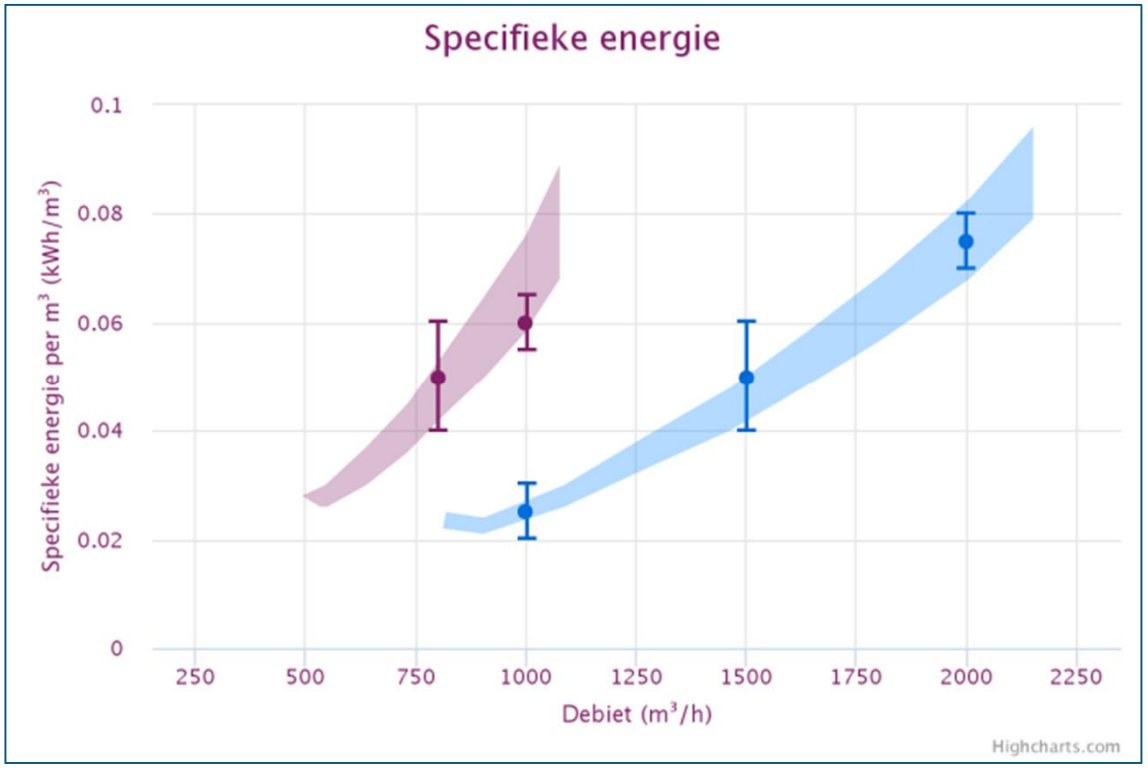
Energieverbruik

Geld

Imago

Niveau 3: Onderbouwing





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Displays

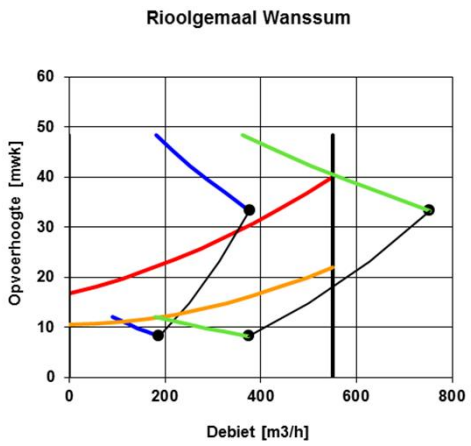
Geld

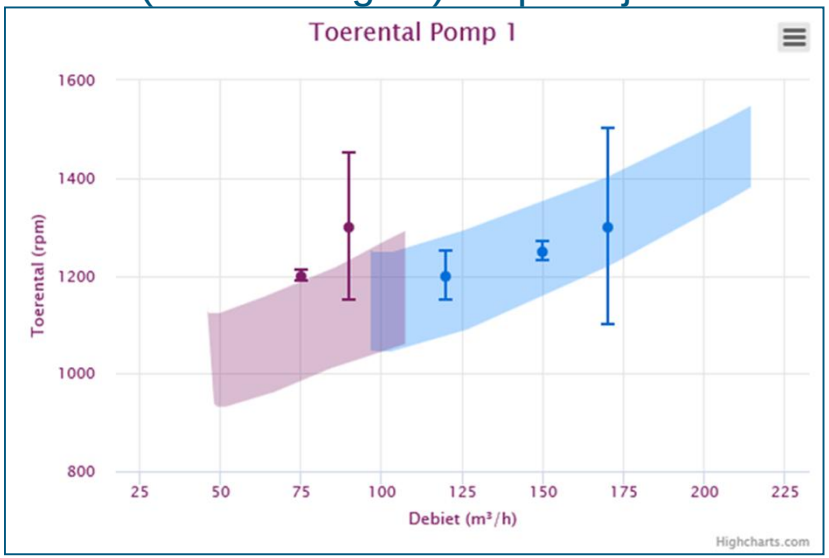
Risico

Gemaal Type 2 (geen druksignaal, dus geen werkpunten)

- Q
- p
- n
- peil
- E

Geen druk, maar wel toerental, vergelijking theorie (Wanda Engine) en praktijk





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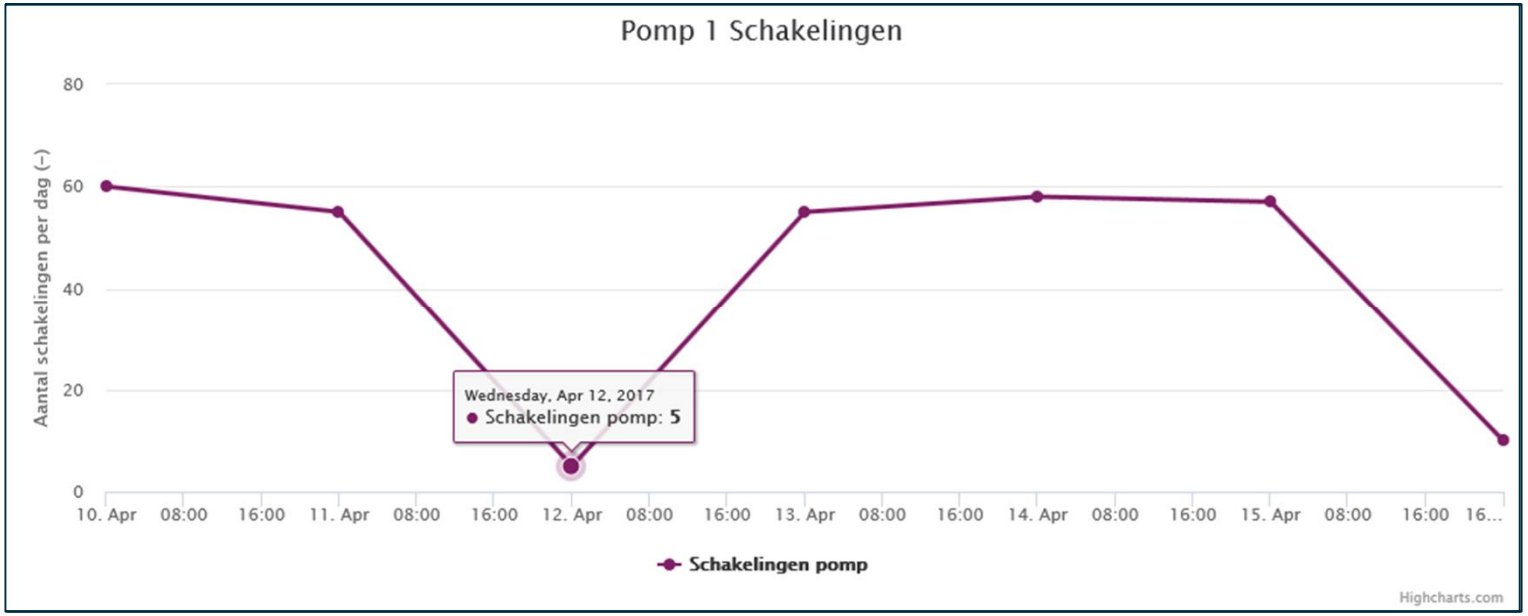
Displays

Geld

Risico

Gemaal Type 3 (Pomp aan of uit)

- Q
- p
- n
- peil
- E



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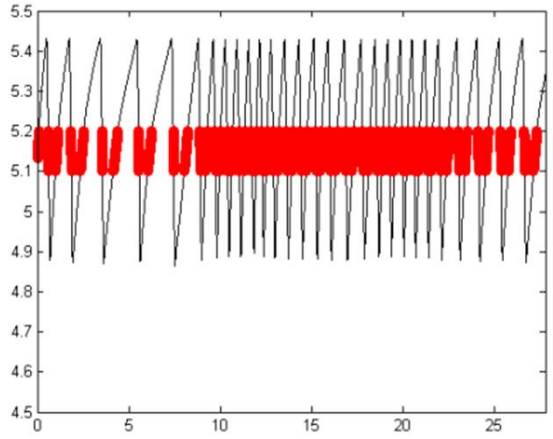
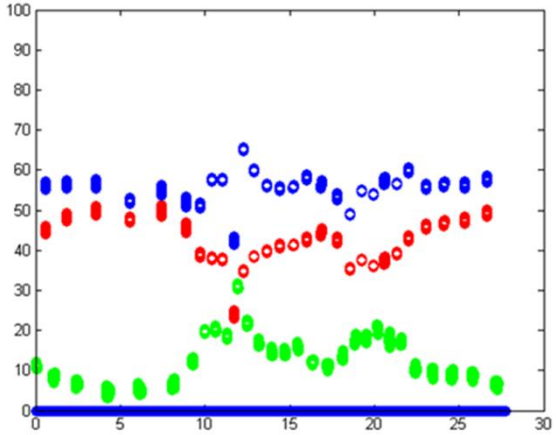
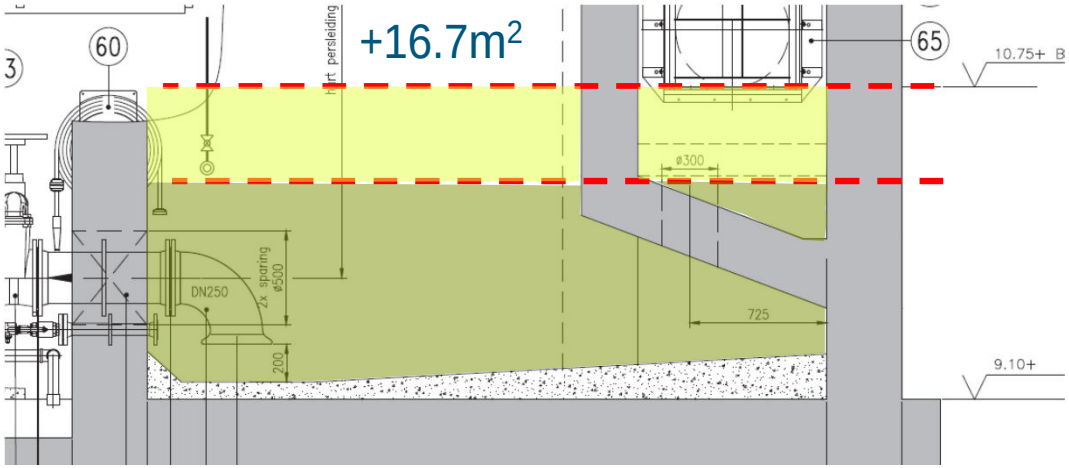
Displays : debiet



Kelderpeil





+10.75 mNAP

+10.40 mNAP

+9.10 mNAP

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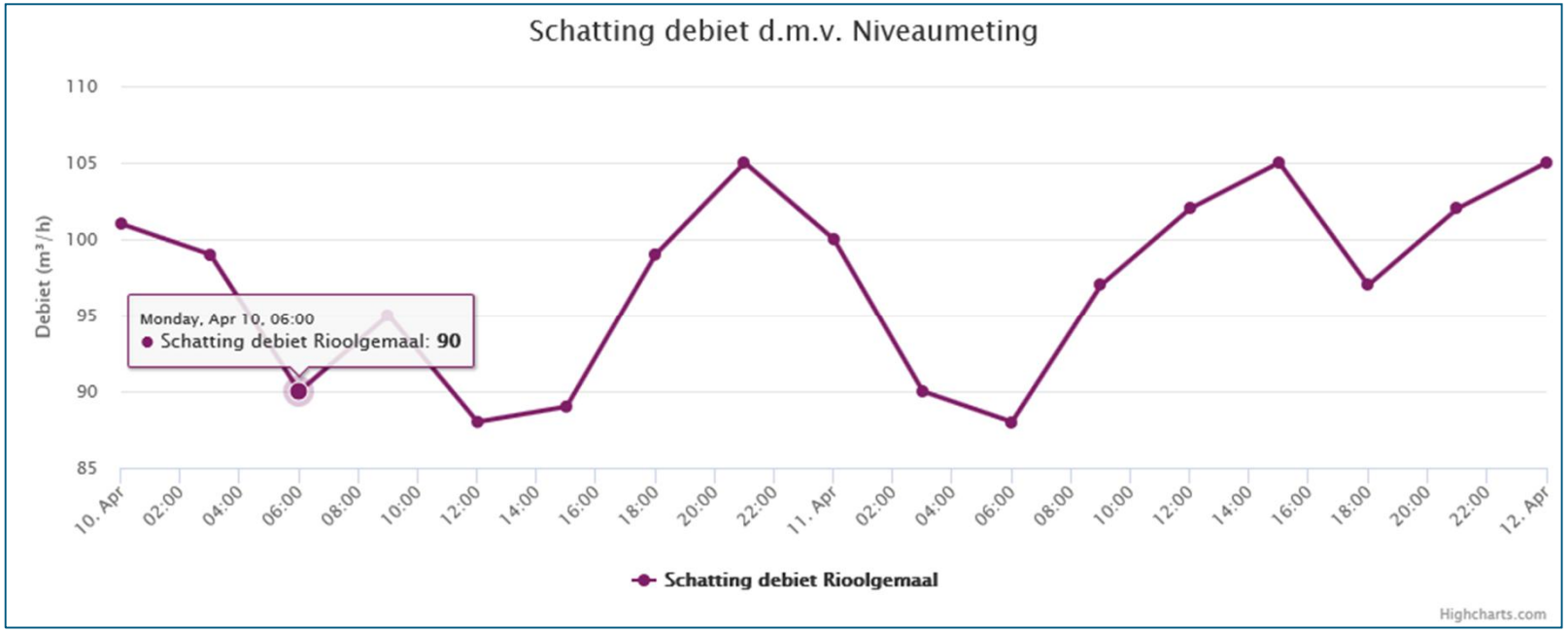
Display : FLOW zonder debietmeter

- Bepaling op basis van kelderpeil



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Conclusie

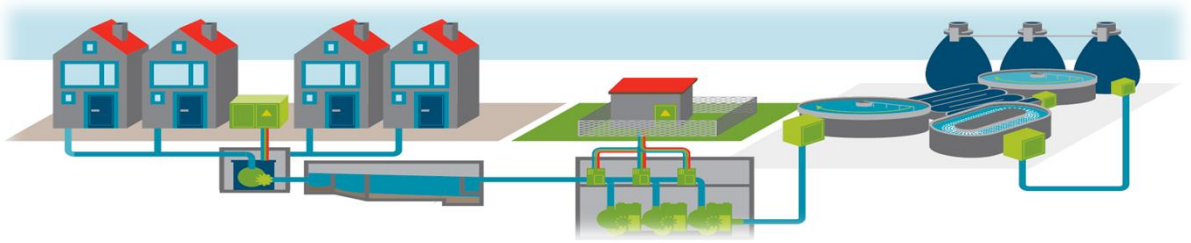
Belangen

- Geld
- Risico
- Imago
- Omgeving

FLOW by Aquasuite®
a product of Royal HaskoningDHV

Aquasuite FLOW **ondersteunt beslissingen** over

- Bedrijfsvoering / Energie
- Onderhoud
  (Toestandsafhankelijk)
- Investering
  (Op maat)



- Aanvoer
  (Communicatie met Gemeente, input voor investeringen)