## **Experiences of a Dutch drinking water company**

in the Circular Economy

Martijn Olde Weghuis – Business Development Manager



5,8 million customers

370 MM<sup>3</sup>

<sup>8,3</sup> ;≡

**€1** 

Å

m<sup>3</sup>

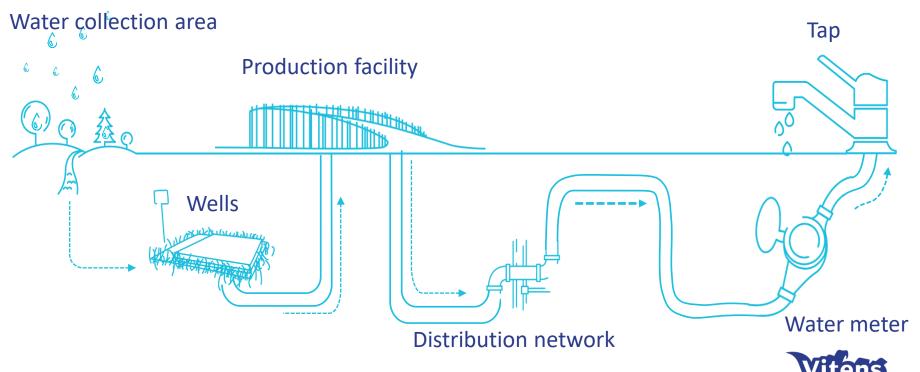
#### 8,3 score on customer satisfaction

€1 /1000 L

1.500 employees



### From source to tap











### **Resource Recovery in drinking water production**





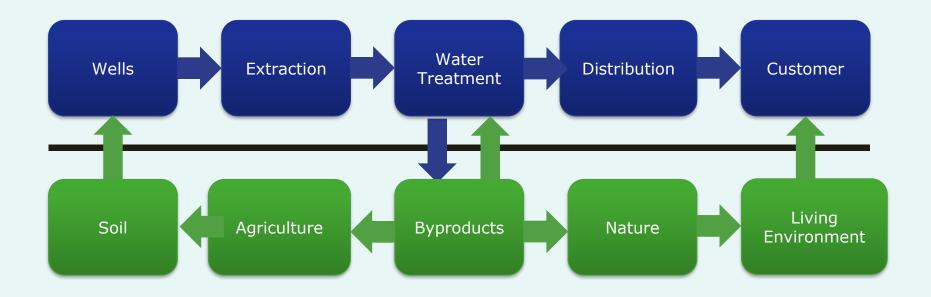
#### **Vitens byproducts**

Byproducts	Volume (ton/y)
Iron sludge	35.000
Lime pellets	25.000
Fulvic acids	1.000
Total	>60.000 ton





#### **Circular strategy: from the ground back into the soil**



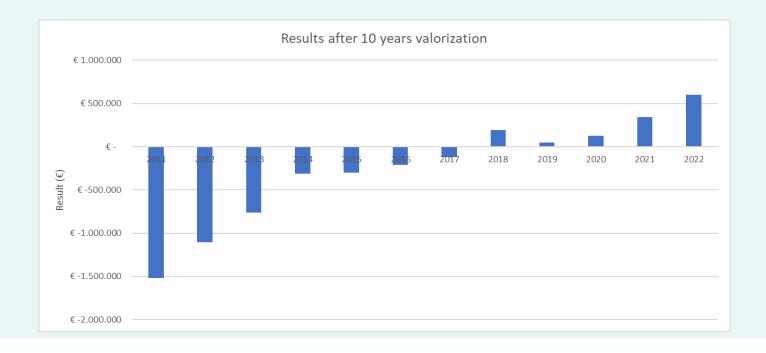


#### **Creating added value for farmers**





## **Successful commercialization of byproducts**





### **Product 1: HumVi**<sup>™</sup>

Fulvic acid natural soil conditioner, chelating agent and biostimulant

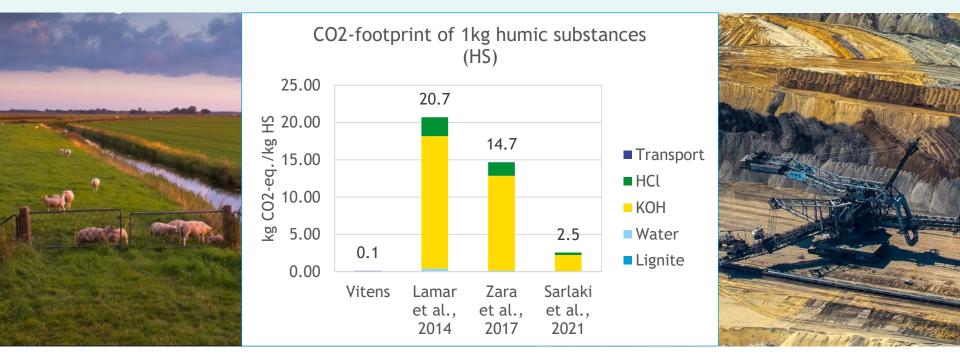








#### HumVi replaces products extracted from mined lignite



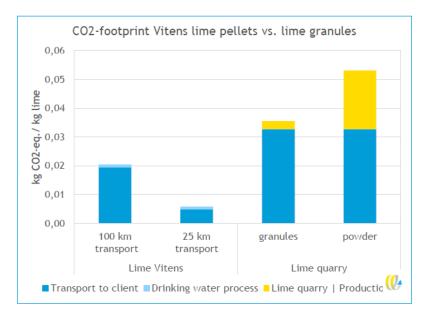
Experiences of a Dutch drinking water company in the Circular Economy



Committed to the Environment

## **Product 2: Lime pellets**

#### Cirkal<sup>®</sup> Slow Release Soil Improver



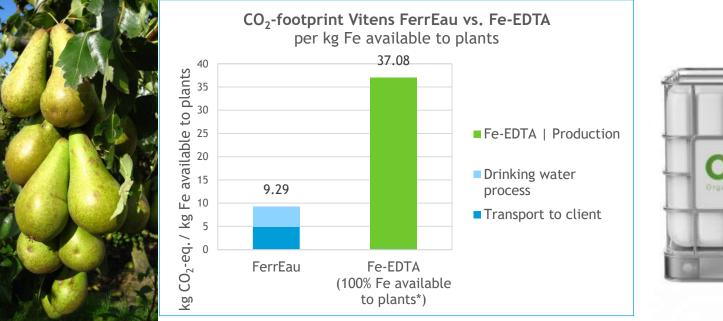






### **Product 3: FerrEau® Iron micronutrient**

#### A natural alternative for synthetic iron chelates



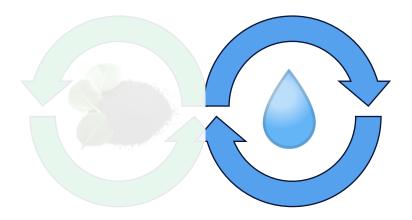








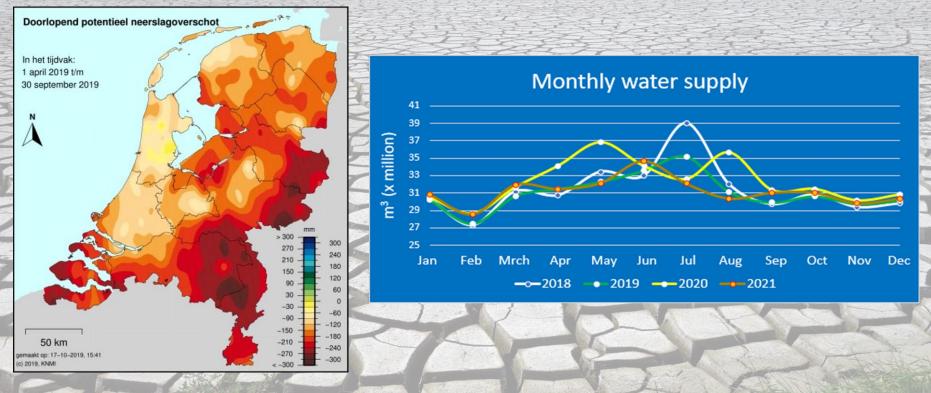






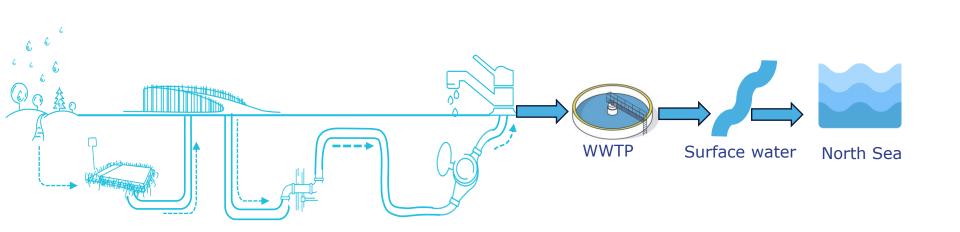
#### **Climate change and water scarcity**

#### Ground water resources under pressure



# "Get rid of water as quickly as possible"

#### Historical linear water system

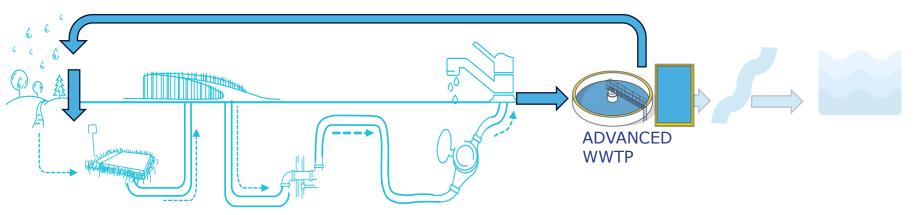


Vitens

# "Keep the water in the system"

#### Working together on circular water ecosystems

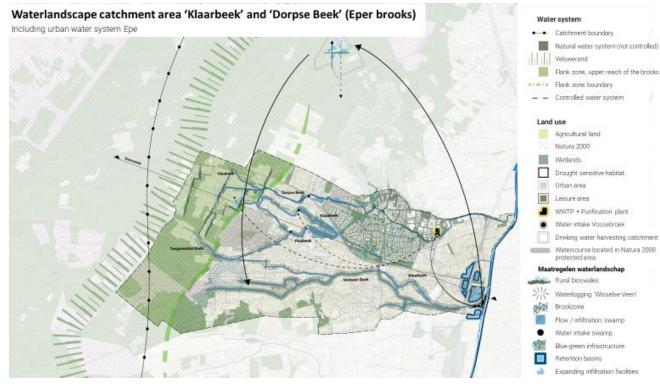
Natural/Farm land





## **EU-LIFE "Eternal source"**

#### **Circular water ecosystem**





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www.vitens.nl

