



D-HYDRO Regional Hydrology and Urban



Ontwikkelingen in het D-HYDRO Regional Hydrology Urban (RHU) project

D-HYDRO voor Waterschapstoepassingen



	1 June 2019	AANBOD	PROJECT
D-HYDRO / Delft3D FM Suite			
D-Flow FM			
1D			
Rural			1D2D
Urban			1D2D
River		?	WS / RIV?
Linking options:			
1D2D embedded (rural)			1D2D
1D2D vertical stacked (urban)			1D2D
1D2D lateral (river)		?	WS / RIV?
1D2D longitudinal (coastal, lake)		?	?
2D			B&O
3D			
Z-layer			3D
sigma			?
D-Real Time Control			
2D			B&O
3D		?	?
D-Morphology			
2D			B&O
3D		?	?
D-Waves			
2D			B&O
3D		?	?
D-Water Quality			
2D			B&O
3D		?	?
D-Hydrology			
Lumped		?	1D2D
Distributed		?	1D2D
Python scripting			
			?
3D Interactive Viewer (DFX)			
			?
Linux			
			?
Windows 10			
			B&O
Open source			
			?

D-Flow FM			
1D			
Rural			
Urban			
River			?

Linking options:			
1D2D embedded (rural)			
1D2D vertical stacked (urban)			
1D2D lateral (river)			
1D2D longitudinal (coastal, lake)			

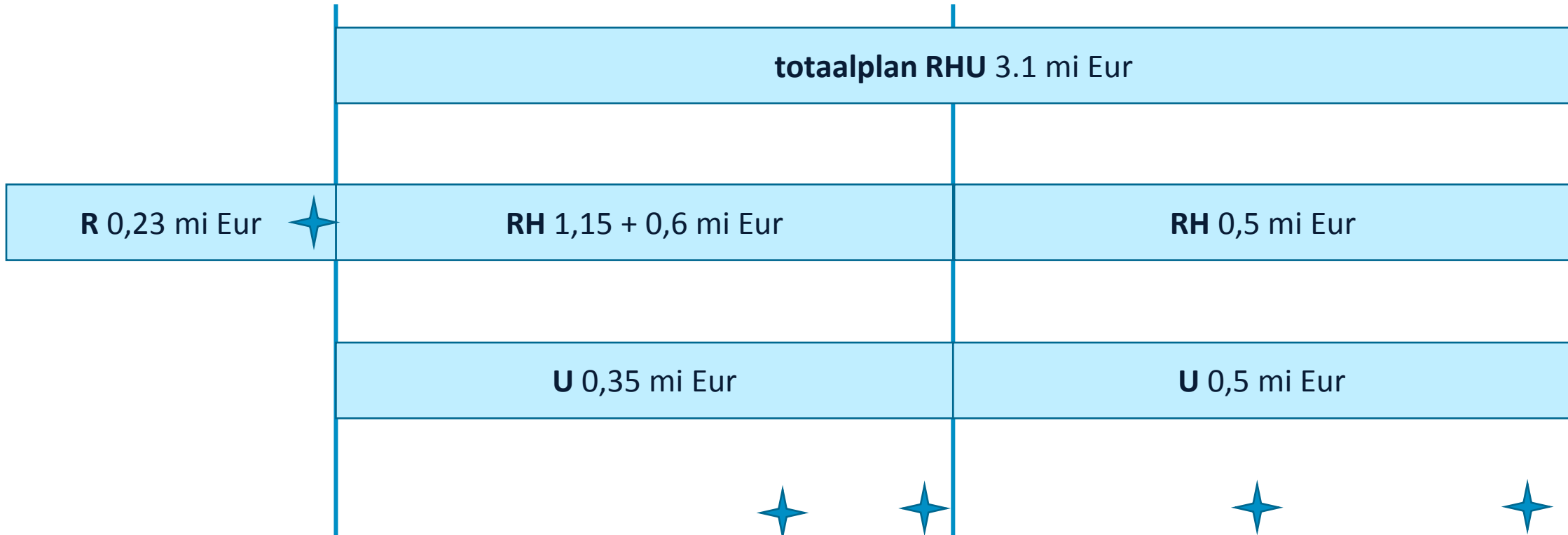
D-Hydrology			
Lumped			
Distributed			

Ontwikkeling aan D-HYDRO RHU – situatie 1 april 2019

2018

2019

2020



Beta releases

GA releases

1 okt

15 dec

okt

dec

Deltares

Development team



Product Owners D-HYDRO RHU

Kernel:



Product Owner



Architect



Scrum master



developers



Testbank

Testers:



GUI:



Product Owner



Architect



Scrum master



Requirements Engineer



Developers

Quality Owners:



Roadmap D-HYDRO 2019

	Incr.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rural basic	1	→											
Hydrology lumped	2					→							
Hydrology distributed	3									→			
Urban basic	4								→				

Belangrijke release data:

- Najaars release (oktober): Rural basic (Bèta versie)
- Winter release (december): Rural basic + Hydrology lumped + Urban basic (Bèta versie)

Roadmap D-HYDRO 2020

	Incr.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Hydrology distributed	3	▶												
Rural advanced	5	▶												
Urban advanced	6	▶												
Bèta testing fase						▶								

Belangrijke release data:

- Voorjaars release (maart): Rural basic + Hydrology lumped & distributed + Urban basic (Bèta versie)
- Winter release (december): Rural advanced+ Hydrology lumped & distributed + Urban advanced (GA versie)

Bèta versie omvat: Feature compleet en gevalideerd, met documentatie (user manual en Technical Reference), inzetbaar in projecten onder bèta testing licentie (i.v.m. mogelijke bugs)

GA versie vat: Bèta eigenschappen, maar getest en gevalideerd in projecten

Ontwikkelstappen (increments) met features

D-HYDRO Suite: **Rural basic** (Increment 1)

- 1D network
- Cross sections
- Roughness
- Boundaries
- Converters (Importers)
- 1D structures
- Laterals
- Storage nodes (rational method)
- 1D2D links
- RTC on 1D structures

D-HYDRO Suite: Rural Basic + **Hydrology lumped** (Increment 2)

- Catchments (lumped)
- Catchments links
- Meteo data
- lumped RR-concepts

D-HYDRO Suite: Rural Basic + Hydrology lumped + **Hydrology distributed** (Increment 3)

- Distributed RR concept

D-HYDRO Suite: Rural Basic + Hydrology + **Urban Basic** (Increment 4)

- 1D pipe network
- Sewer objects and structures
- Roof objects
- 1D2D links
- DWF profiles
- Sewer validation and inspection features
- NWRW concept

D-HYDRO Suite: **Rural Advanced** + Hydrology + Urban Basic (Increment 5)

- Final Rural version, includes all functionalities necessary for rural modelling

D-HYDRO Suite: Rural Advanced + Hydrology + **Urban Advanced** (Increment 6)

- Final Urban version, includes all functionalities necessary for urban modelling