

ruimte en milieu / nieuws

Amsterdamse stroomnet jaren dicht

Het Amsterdamse stroomnet is komende jaren vol, waardoor grootverbruikers niet kunnen aansluiten. Een taskforce zoekt naar een oplossing.

Harry Perree 28 januari 2022

NOS Nieuws Sport Uitzendingen

NOS NIEUWS • ECONOMIE • MA 17 JANUARI, 20:13

Netbeheerder: 'Stroomnet te vol, stop met gunstige regeling zonnepanelen'

rtl nieuws

RTL Nieuws
Tip ons

Nieuws Economie Sport Entertainment Tech Lifestyle EditieNL Uitzendingen 16°

Bijspringen

'Netbeheerders hebben tot 2050 100 miljard nodig voor energietransitie'

15 april 2021 16:22
Aangepast: 15 april 2021 20:00

Trouw

Zonnestroom

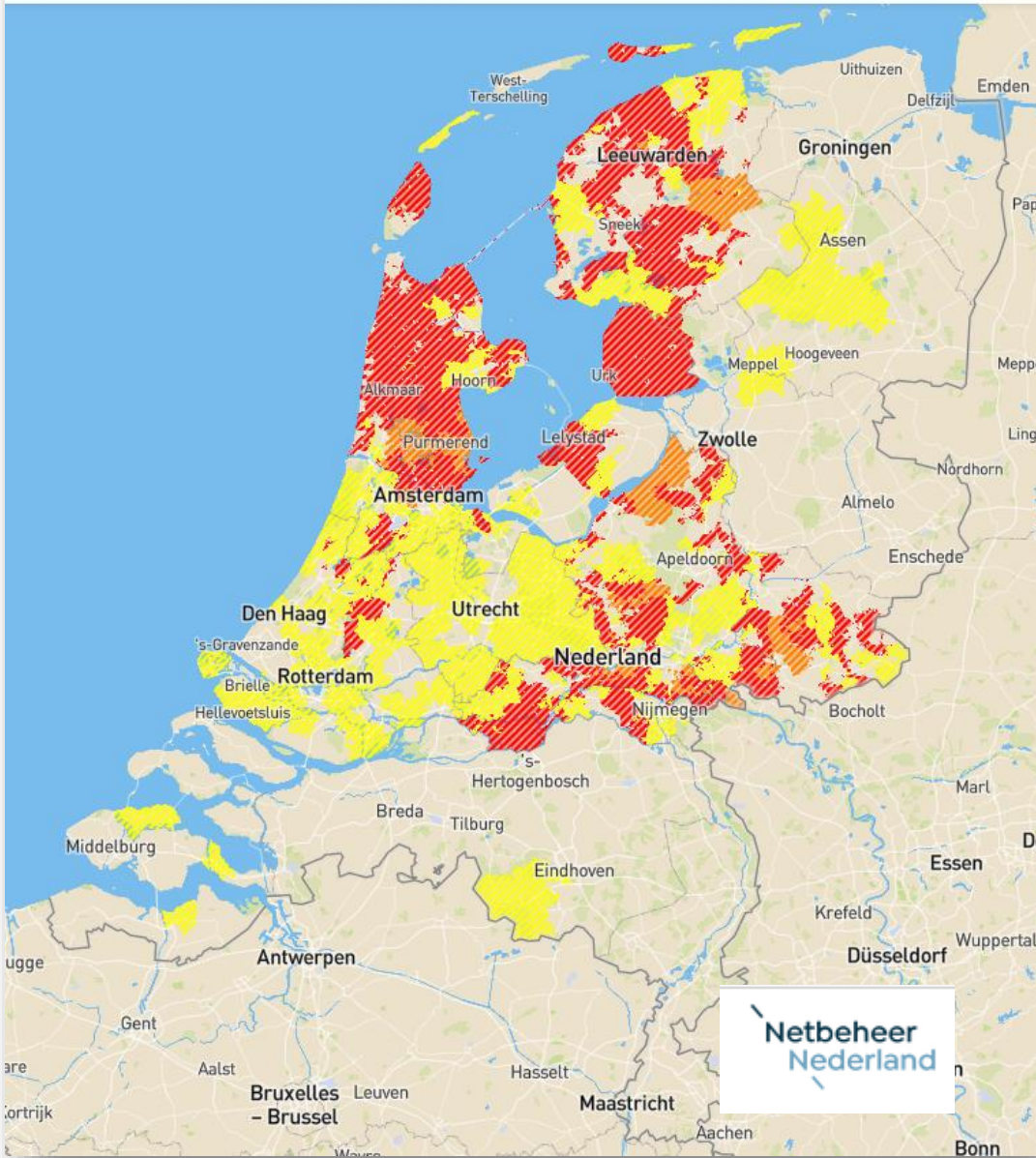
Liander luidt noodklok: particulieren zouden zonnestroom zelf moeten opslaan

Netbeheerder Liander wil dat particulieren gestimuleerd worden om een eigen opslag voor hun zonnestroom te laten installeren.

Redactie Trouw 23 juli 2021, 17:38

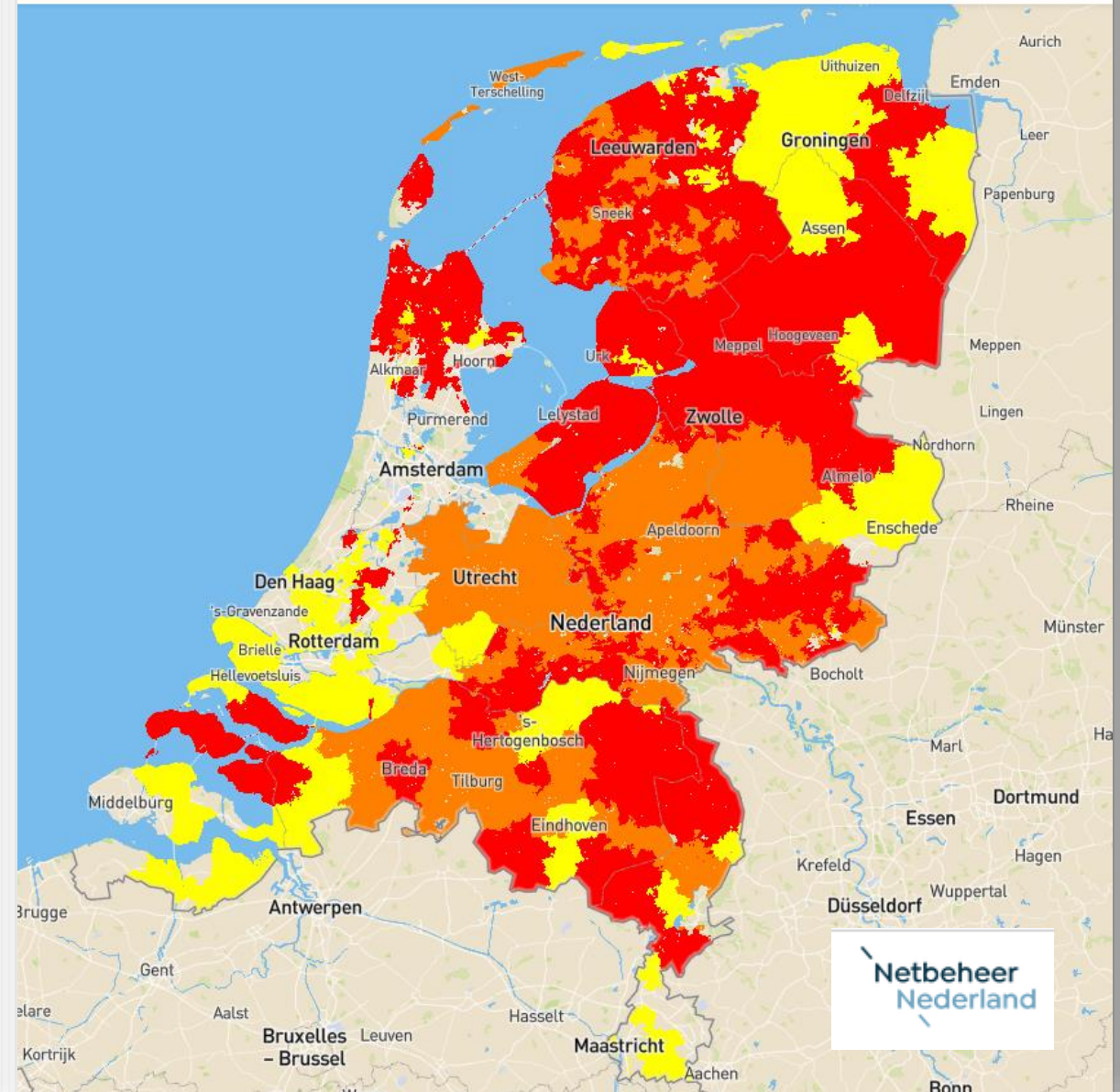
Capaciteitskaart afname elektriciteitsnet

Bijgewerkt: 25-05-2022 09:50



Capaciteitskaart invoeding elektriciteitsnet

Bijgewerkt: 25-05-2022 09:50



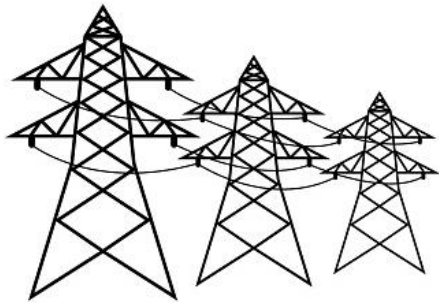


HKV RayCast

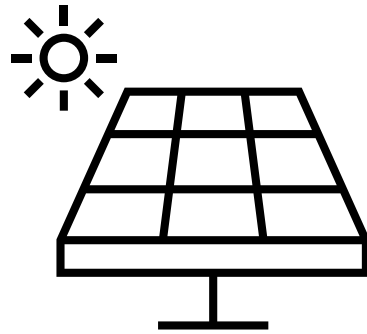
A space-based nowcast of solar irradiance with
uncertainty estimates



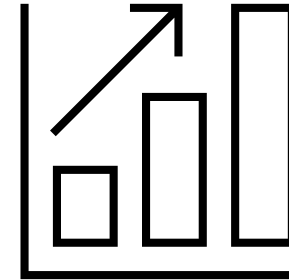
Why is RayCast relevant?



Congestion and imbalance
for **operators of the
electricity grid**



Curtailment en
uncertainty for
energy producers

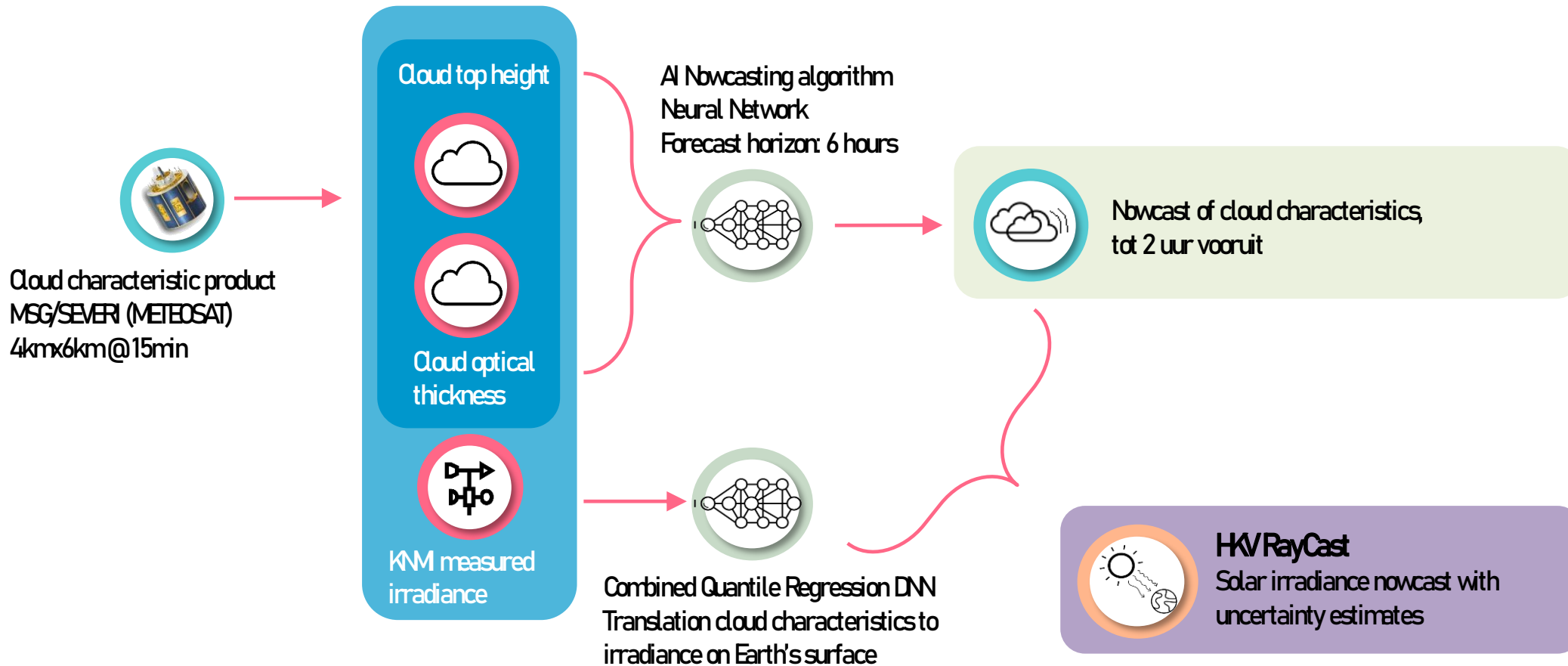


High risks and
volatile prices for
**traders and
aggregators**

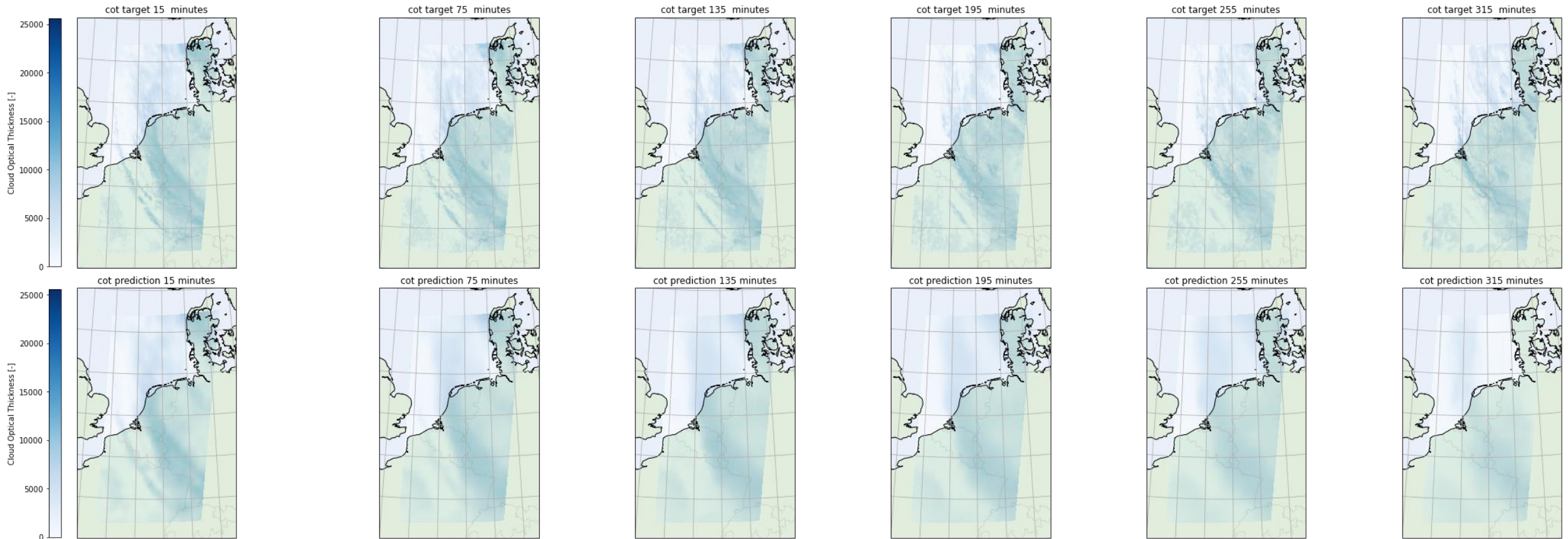
Probabilistic forecasting

- Forecasting is getting **harder** in energy-systems
- Deterministic 'point-forecasts' are always **wrong**
- Taking decisions based on wrong forecasts can lead to **financial losses** or even **physical damage**
- Probabilistic forecasts allow us to quantify **operational uncertainty**
- Quantifying uncertainty allows for **risk-based** decision-making

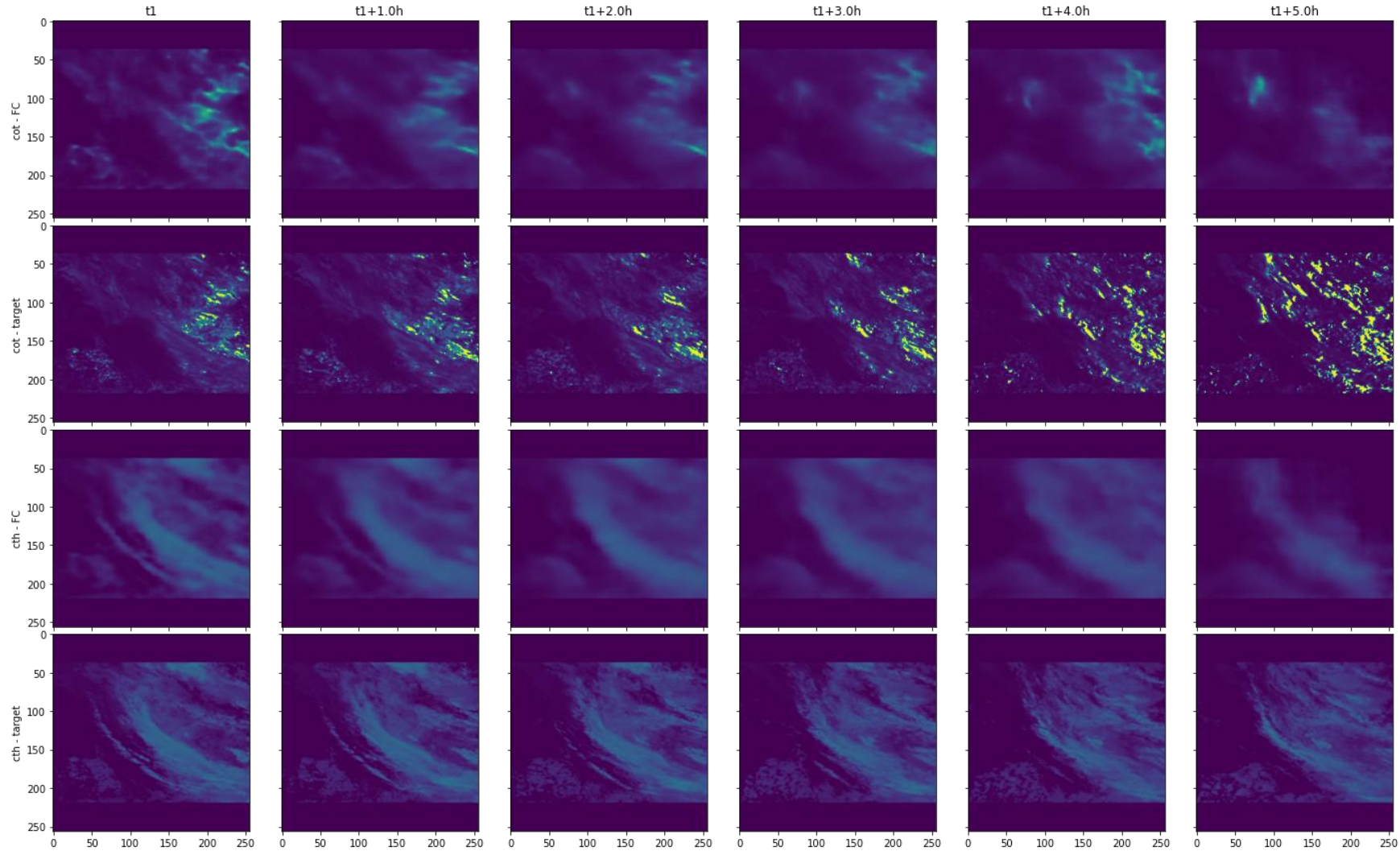
HKV RayCast



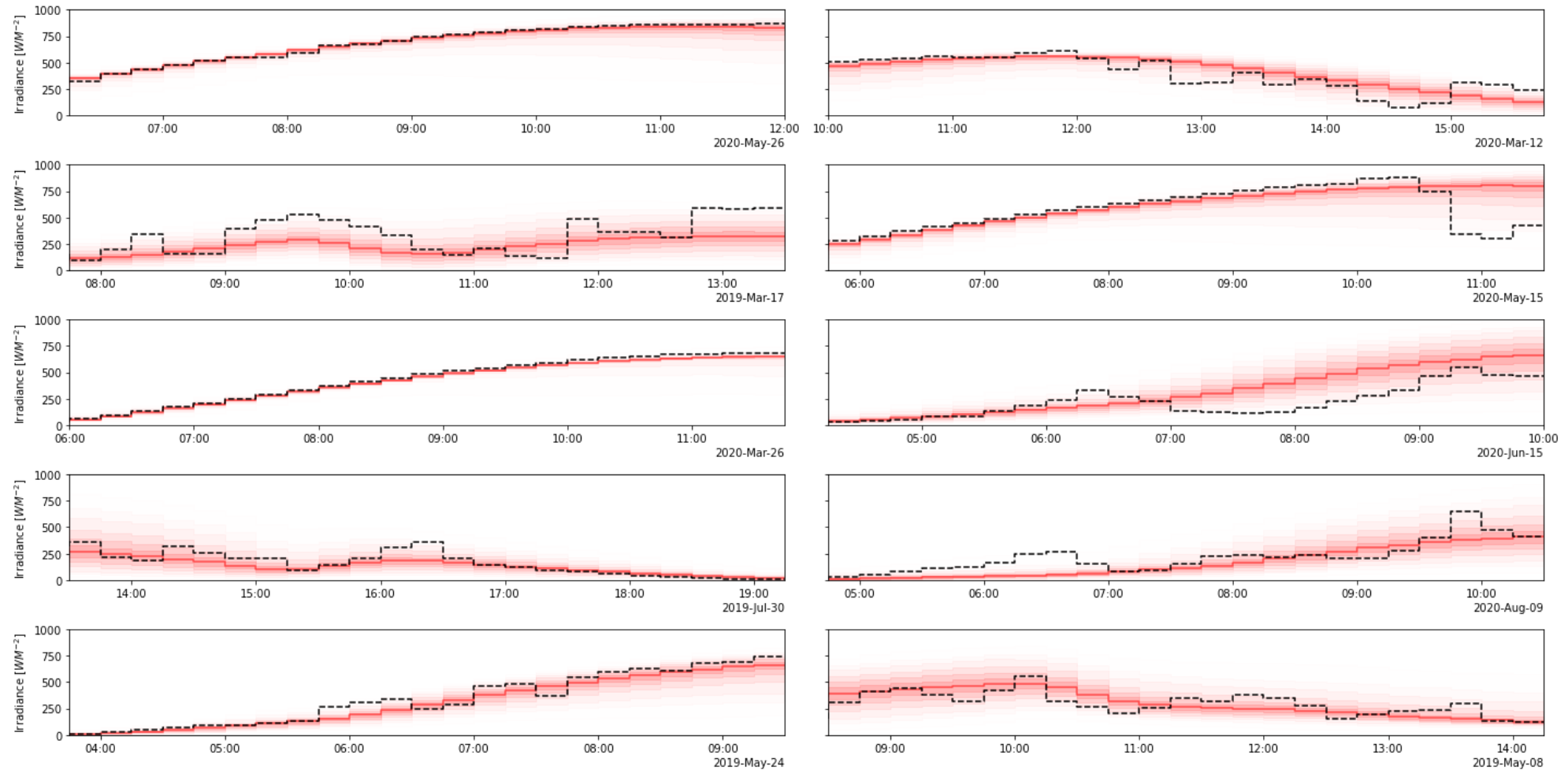
Nowcast wolkkarakteristieken



X-Ray nowcast



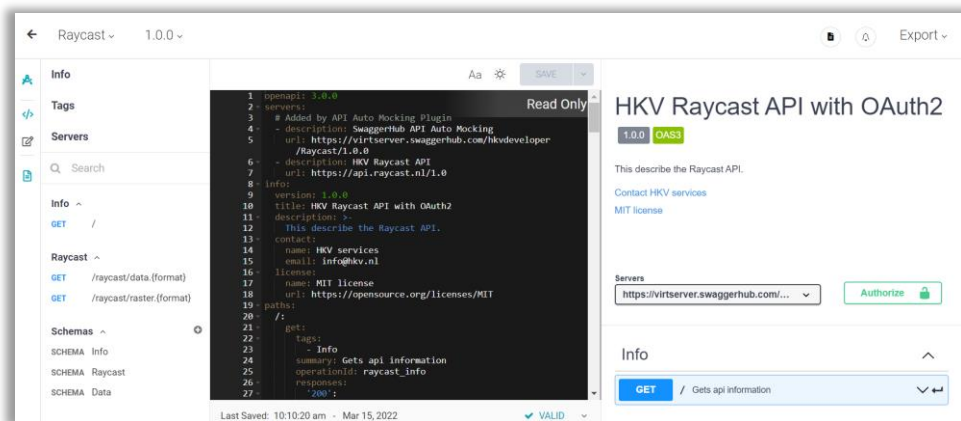
RayCast at a pixel



Current developments

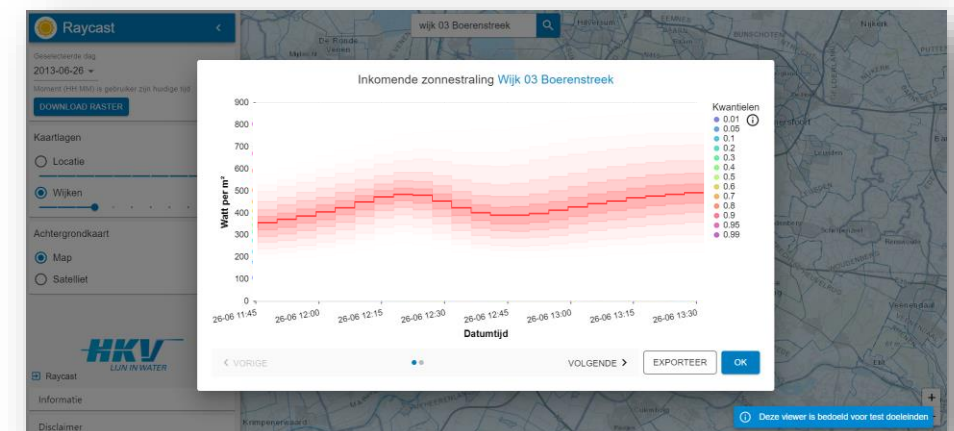
- Validate forecasts with **actual grid data**
 - Stedin, Alliander and Enexis
- First **operational version** will be online before June
 - Working API and viewer

API PYTHON



```
1 openapi: 3.0.0
2 servers:
3   - Added by API Auto Mocking Plugin
4   - description: SwaggerHub API Auto Mocking
5     url: https://virtserver.swaggerhub.com/hkvedeveloper/
6     /Raycast/1.0.0
7   - description: HKV Raycast API
8     url: https://api.raycast.nl/1.0
9 info:
10  version: 1.0.0
11  title: HKV Raycast API with OAuth2
12  description:
13    This describe the Raycast API.
14  contact:
15    name: HKV services
16    email: info@kv.nl
17  license:
18    name: MIT license
19    url: https://opensource.org/licenses/MIT
20 paths:
21  /:
22    get:
23      tags:
24        - Info
25      summary: Gets api information
26      operationId: raycast_info
27      responses:
28        '200':
```

WEBVIEWER raycast.nl





HKV RayCast

A space-based nowcast of solar irradiance with
uncertainty estimates

