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IMPROVED WATER RESOURCE MANAGEMENT USING NEWLY LAUNCHED SPACE ASSETS

Frano Cetinic CEO

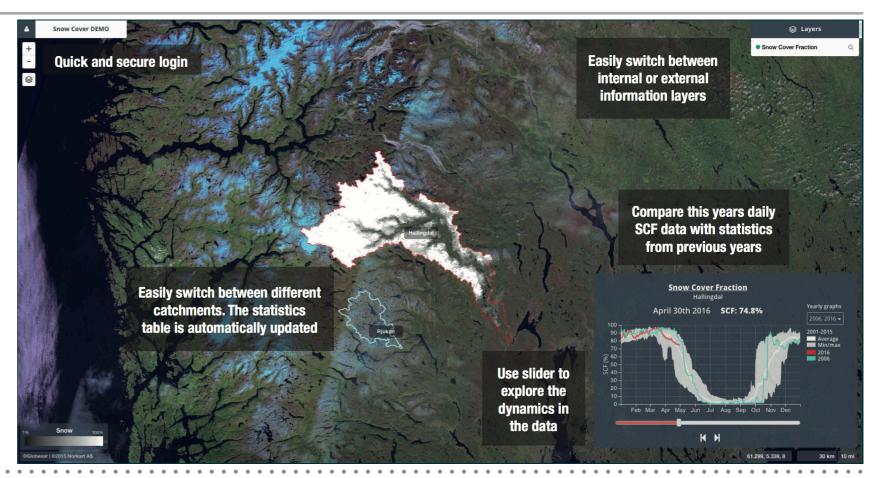
SNOW MEASUREMENTS



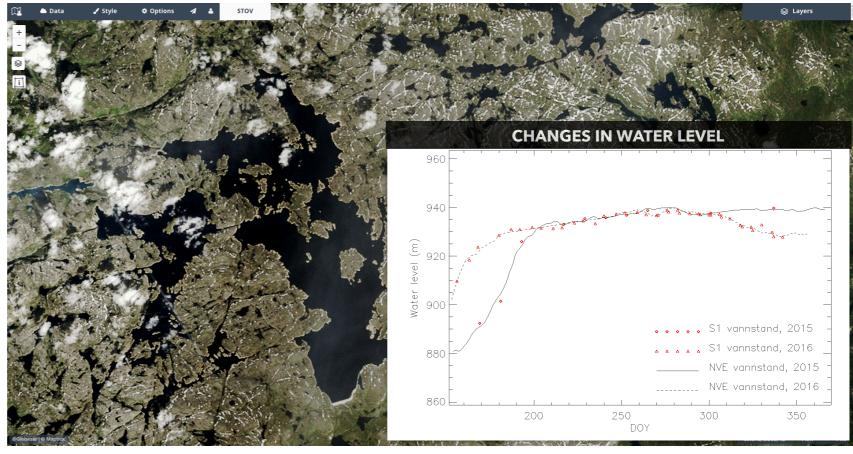
WATER SYSTEM MEASUREMENTS

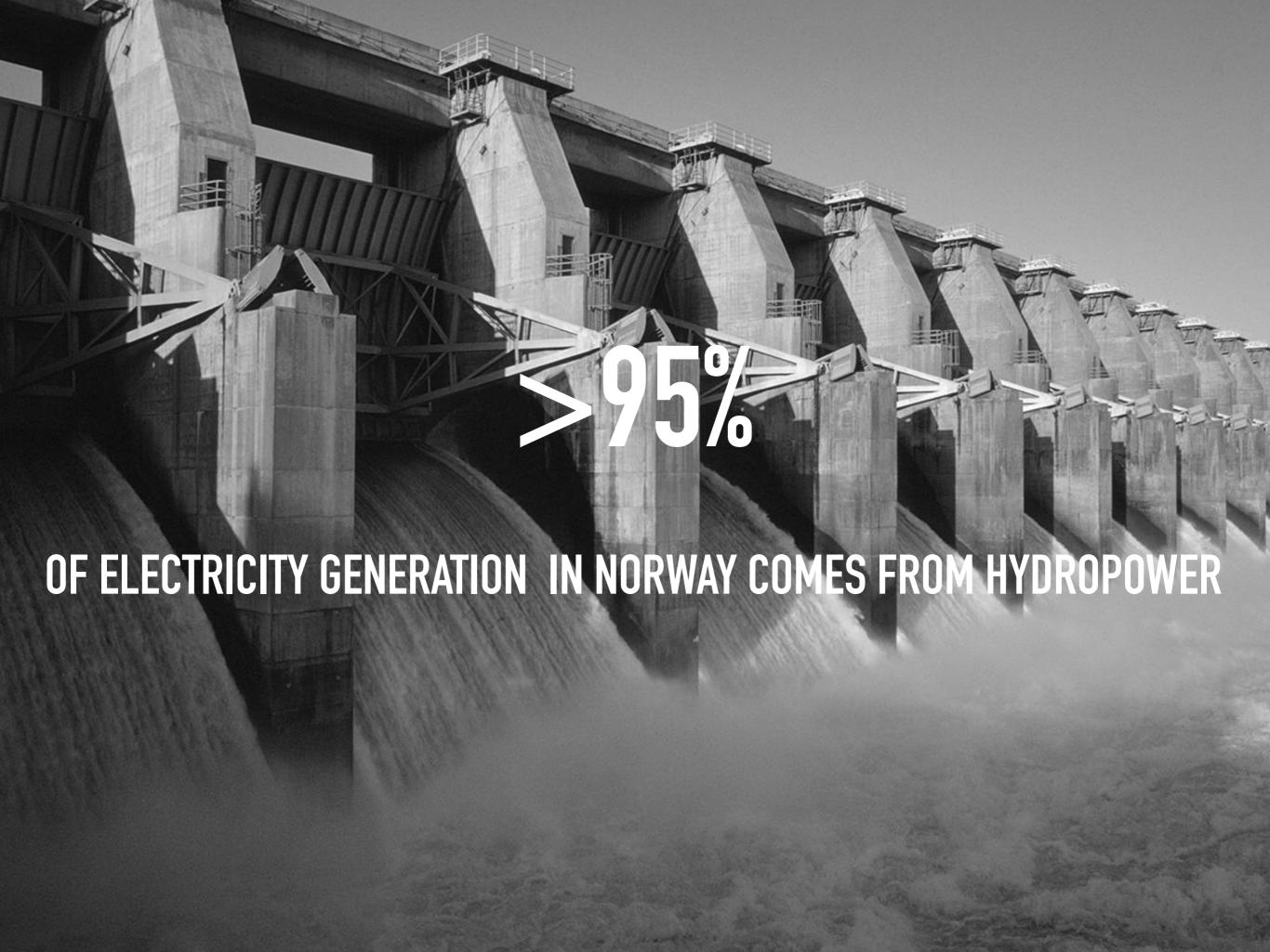


SnowInfo

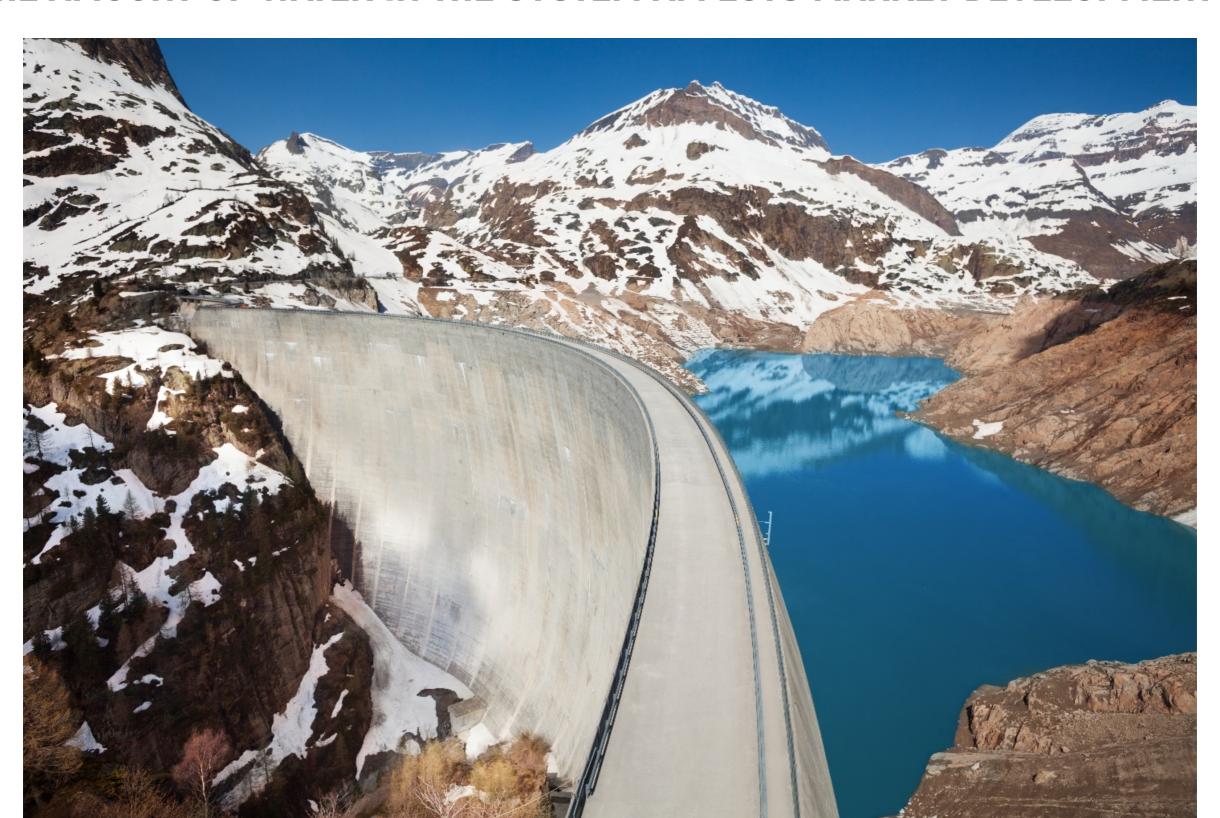


WaterInfo

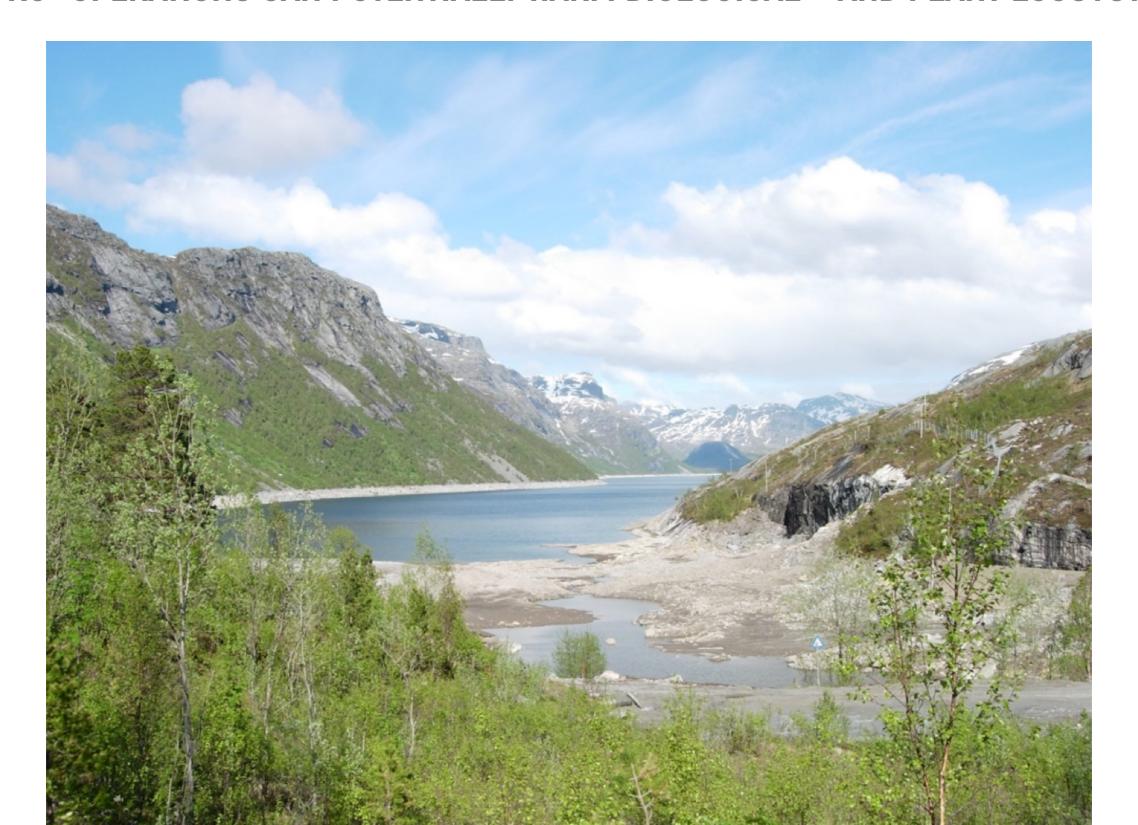




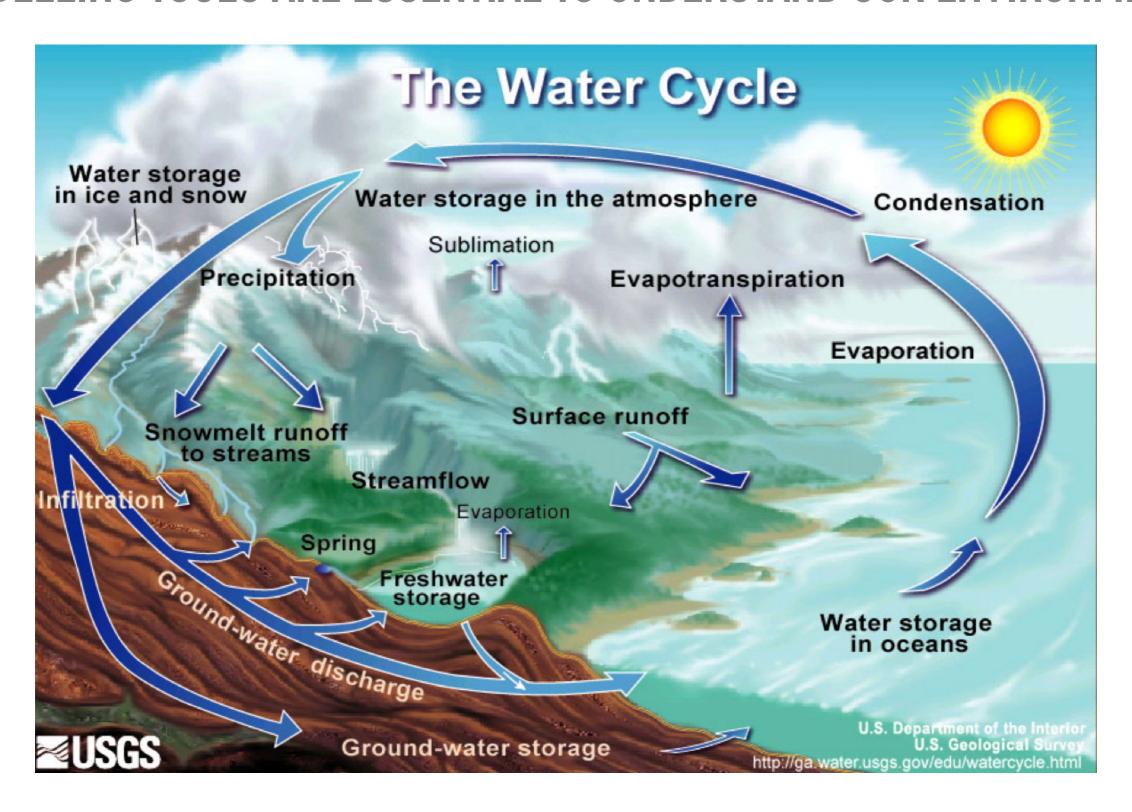
THE AMOUNT OF WATER IN THE SYSTEM AFFECTS MARKET DEVELOPMENTS



"HYDRO" OPERATIONS CAN POTENTIALLY HARM BIOLOGICAL - AND PLANT ECOSYSTEM



MODELLING TOOLS ARE ESSENTIAL TO UNDERSTAND OUR ENVIRONMENT



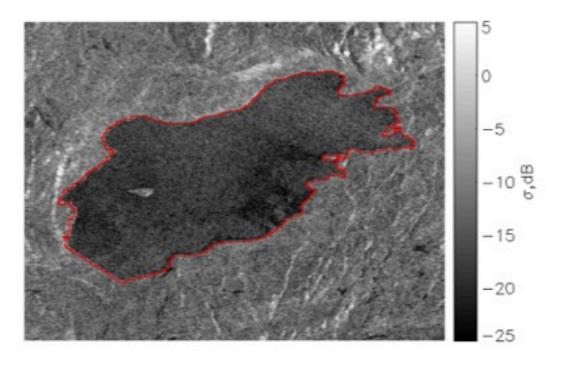
FREE AND OPEN DATA ENABLES NEW SERVICE DEVELOPMENTS



QUANTIFYING SURFACE WATER EXTENT USING RADAR MEASUREMENTS

Satellite: Sentinel-1a/b
Pixel resolution: 5mx20m

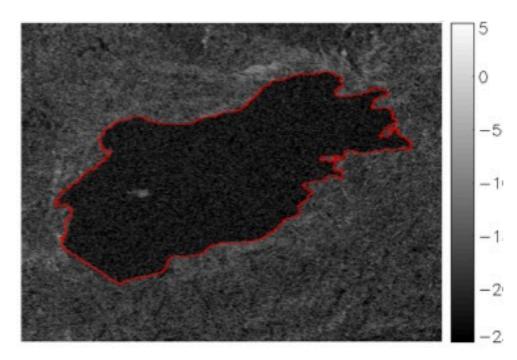
Area (Sentinel-1) = 10.1869 km2



Satellite: Radarsat-2

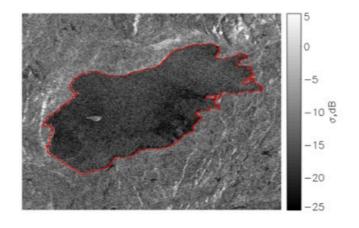
Pixel resolution: 3mx3m

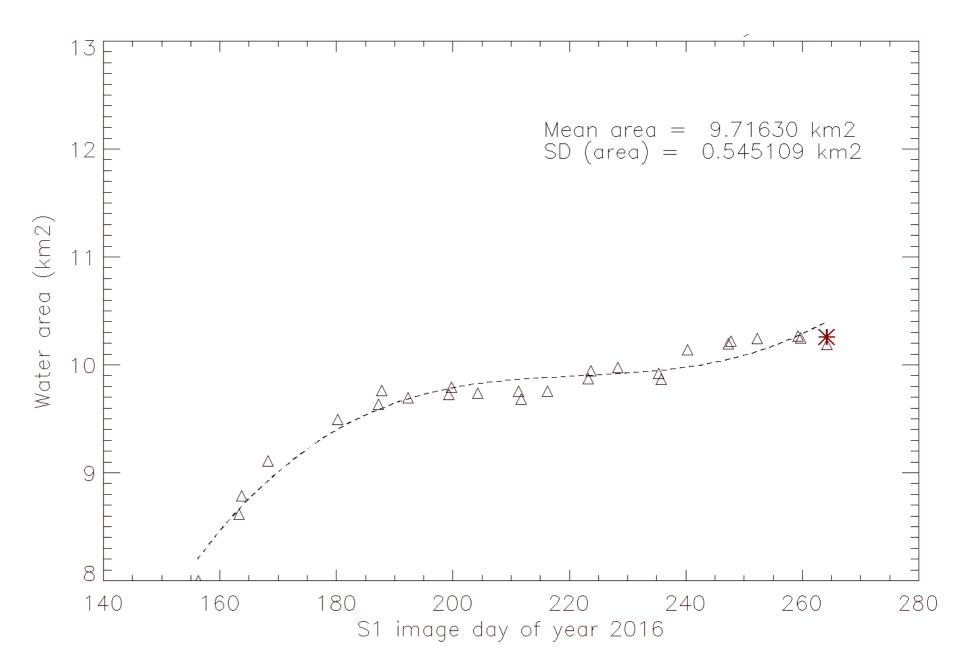
Area (Radarsat-2) = 10.2595 km2



Difference = 0.06km², or 0.7% av RS2-areal

QUANTIFYING SURFACE WATER EXTENT USING RADAR MEASUREMENTS CONT'D





HOW DID WE GET HERE AND WHERE ARE WE TODAY?

- Step 1: Idea stage
 - Won Norwegian Copernicus competition in 2016 (Globesar AS)
 - Demonstrate accuracy
 - Verify customer interest
- Step 2: Develop and demonstrate service
 - ► ESA IAP program, Two-Phase approach
 - Extensive application process
 - ► ESA is your <u>business</u> partner
- Step 3: Launch fully operational Service

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