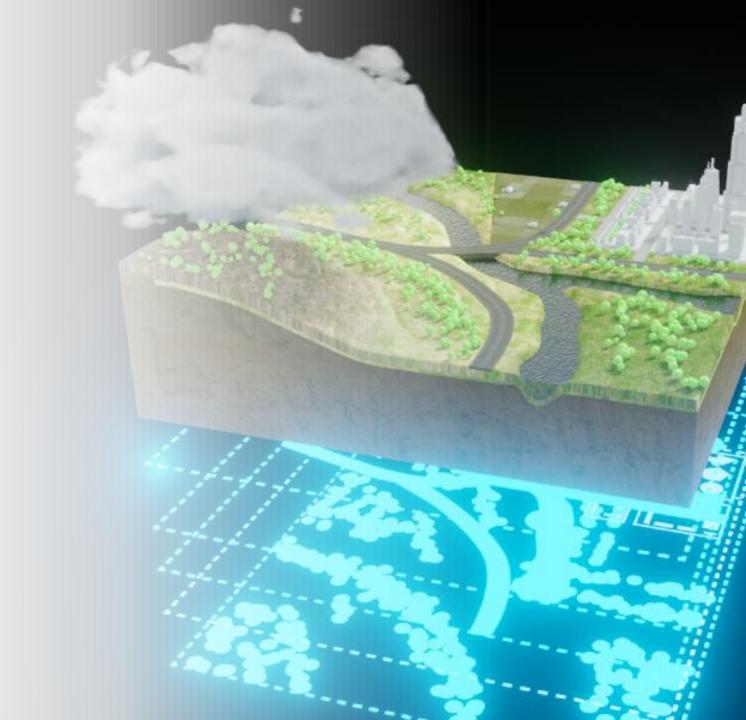
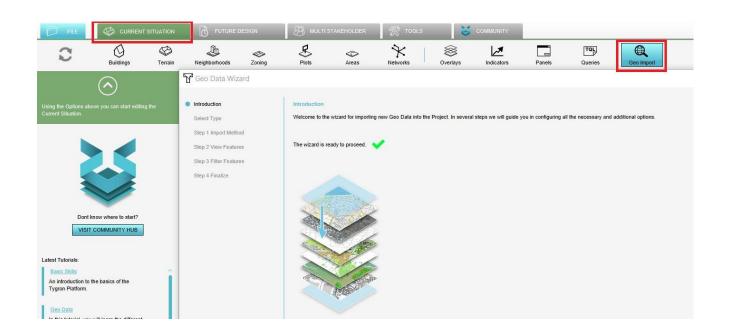
Tygron Geodesign Platform

Florian Witsenburg May 11, 2022



Tygron Platform

- Open Ecosystem
 - Digital transformation
 - Open standards
 - High Performance Computing
- Project Based
 - Data driven
 - Analytics
 - Scenario planning
- Used by
 - Consultants
 - Governments
 - Project developers
 - Universities
- Use-case example: https://youtu.be/S36yjjN_y0Q







- •GIS and analytics
- •SaaS. 24/7
- •Support and maintenance

25 million gridcels HPC

Flooding

Evacuation planning

Heat stress

64++ billion gridcels HPC

Data and digitalization engineering

State and national level engineering and complexity

API – connecting external models

...2015

...2021

Since 2005

...2018

...2025

Multidisciplinary engineering

City Planning

API – connecting big data

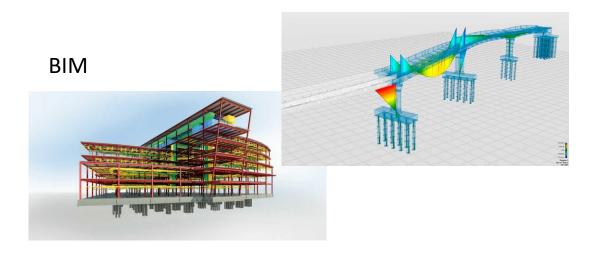
4 billion gridcels HPC

Biodiversity

Drought

Damage and casualties

Digital Twin examples



Object Orriented

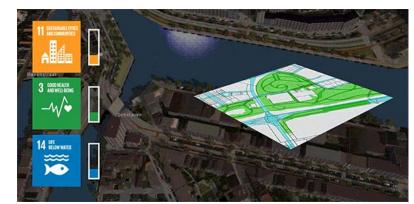


Site Specific

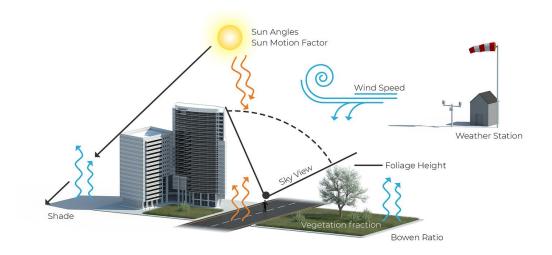


Multidisciplinary

Geographic



- 1. 'In-Tygron' building blocks
- 2. API calculation models
- 3. 'In-Tygron' engineering models



- 1. 'In-Tygron' building blocks
- 2. API calculation models
- 3. 'In-Tygron' engineering models

Building blocks

- Excel
- Indicators
- Queries
- Raster calculator

Intelligence owned by user
HPC
Combine 1, 2, 3
Marketplace among community

Example: https://www.tygron.com/en/2021/0 4/07/what-is-the-most-effective-way-of-planting-trees-to-reduce-heat-stress/

- 1. 'In-Tygron' building blocks
- 2. API calculation models
- 3. 'In-Tygron' engineering models

- External intelligence
- Connection via API
- Validation externally
- Ownership intelligence at the source
- Example:
 - Groene Baten Planner RIVM
 - https://www.tygron.com/en/2021/12 /09/the-benefits-of-green-in-anintegral-perspective/
- Combining 1, 2, 3

- 1. 'In-Tygron' building blocks
- 2. API calculation models
- 3. 'In-Tygron' engineering models

- Engineering models. Examples:
 - Flooding
 - Drought
 - Heatstress
 - Noise
 - NOx
- Hardware software co-design
- Data modelling integration
- Combining 1, 2, 3
- Example:
 - https://www.tygron.com/en/2021/07/23/logb ook-flooding-in-limburg-nl-16-juli-2021/
 - https://www.tygron.com/en/2021/07/28/flas h-flood-in-river-catchments/

Tygron Geodesign Platform

Since 2005

Open Platform

Support, maintenance, security, privacy, authentication

Questions? florian@tygron.com

