

WindSim Accelerator



Overview

- The case for the cloud
- What is WindSim Accelerator
- SaaS model: Subscription vs. license
- Credits
- Looking forward: Demo new functionality









The case for the cloud | Trends

- Volume The project pipeline is increasing, larger projects, more parametric studies
- Speed Demands on project turnaround time is increasing
- Accuracy The need for accuracy remains high, as increasingly complex sites are being assessed, pressure on profitability, reduce uncertainty
- Security Data privacy, compliance, and backup
- **Scalability** Increasing need for teamwork with multiple people on different devices from different locations at the same time
- Access Make tools more intuitive and easy-to-use across all terrain types
- User friendliness Removing obstacles, investment and service needs, and implementing improvements and new functionality much quicker, reducing the need for multiple tools
- Productivity More (granular) projects, jobs and sectors can be run simultaneously, time freed up









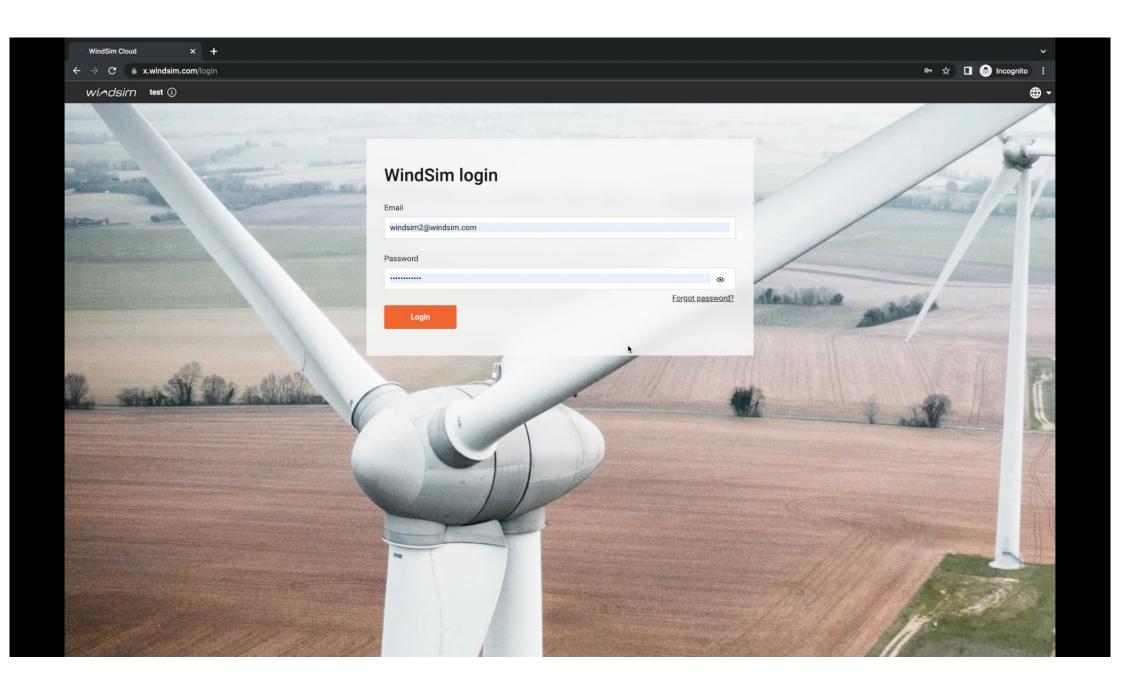
The case for the cloud | Outcomes

- ✓ Better and faster investment decisions
- ✓ Higher, realistic AEP
- ✓ Lower CAPEX
- ✓ Lower OPEX
- ✓ Improved project ROI and Bankability
- ✓ Increased competitiveness











WindSim Accelerator | What it is

- ✓ A cloud-based platform: Access to multiple servers simultaneously
 - √Ability to run multiple projects and jobs simultaneously
 - √Ability to run more granular projects
 - ✓'Unlimited' model size
 - ✓ Reduced project development time
 - √Time freed up and higher productivity
 - √Fully managed services
 - ✓ No local hardware investment or support
 - ✓ Accessibility and scalability (multiple users, devices and locations)
 - √Continuous upgrades/releases
 - ✓ Resilience
 - ✓ Analytics
- ✓ Purpose: expanding access to accuracy, faster results, making CFD easier to use, more accessible
- ✓ Currently housing wind field simulations, in combination with desktop pre- and post-processing
- ✓ More functionality and modules to follow, to eliminate the need for desktop software
- ✓ SaaS-based subscription model









SaaS model | Subscription vs license

- Objectives
 - Simple model
 - Flexibility
 - Reflect typical user needs and usage patterns
- Lower overall costs (Total Cost of Operation/Ownership)
 - No need for initial investment
 - Eliminated: annual support and maintenance, local hardware investment, local support, electricity costs
- Available as monthly, yearly or 3-yearly subscription
- Volume-based with different plans

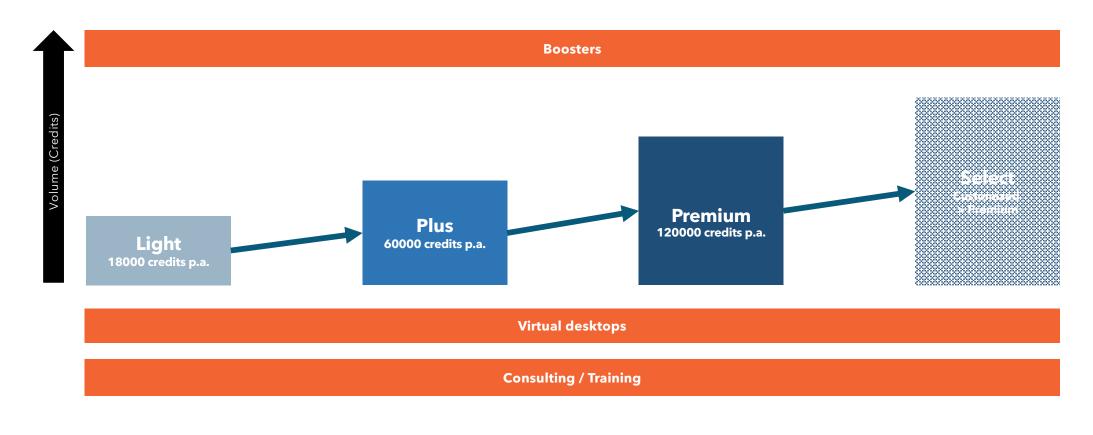








WindSim Accelerator | Volume-based subscription plans





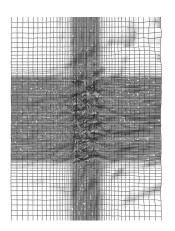
WindSim Accelerator | Credits

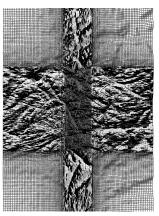
How many credits (indicative)?

Example 1
5M cells, 1 run, 12 sectors, low complexity
Approximately 100 credits

Example 2
10M cells, 1 run, 12 sectors, medium complexity
Approximately 1000 credits

Example 3
30M cells, 2 runs, 16 sectors, high complexity
Approximately 30.000 credits













WindSim Accelerator | Credits

- Credits are a reflection of value delivered, driven by:
 - Model size
 - Terrain complexity
 - Max iterations
 - Sectors
 - Convergence criteria
 - Solver selection
 - Accuracy
 - Stability

Tip: Credit consumption

- Trial & familiarization
- Analyze your usage pattern
- Review projects and used credits



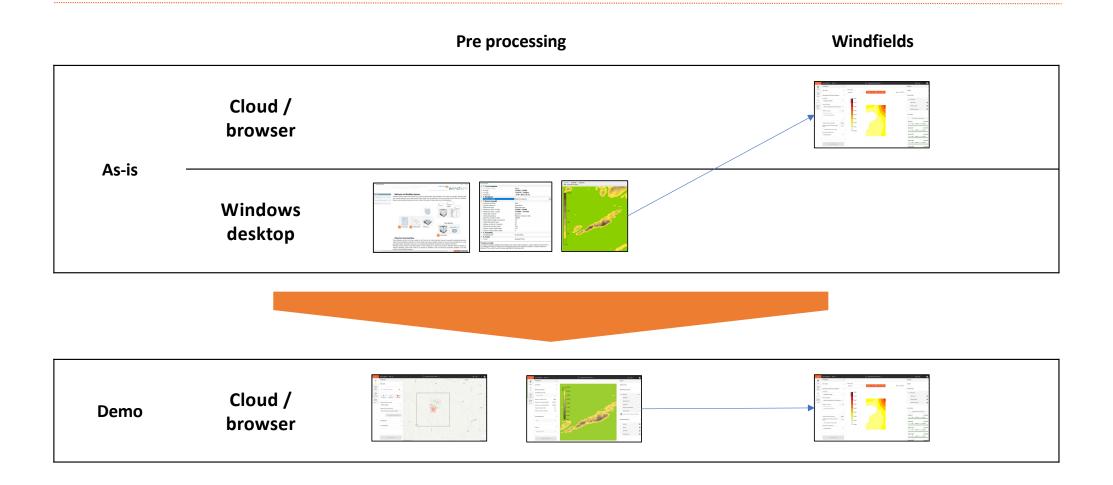




- Simple projects draw very few credits whereas the more complex ones will require more
- Coming soon: Preview of estimated time and credit consumption prior to starting simulation



Cloud beta | What we will show you



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Cloud | Demo

• Live plots (x.windsim.com)

• Map (https://app-windsim-web-ui-dev-dominik.azurewebsites.net/)

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