Workspace

A software platform for unleashing intellectual property

CSIRO Data61 Decision Sciences program

www.data61.csiro.au

CSIRO | DATA 61

Workspace is a proven platform for delivering software applications for commercial and research purposes. The Workspace framework provides a single environment to develop and reuse software components and libraries that are designed to be significantly beneficial to users with a wide range of skills. By streamlining the software development process, Workspace acts as a low-cost pathway to commercialise new or existing intellectual property.

Analyse
Interactively construct and execute workflows of arbitrary complexity

Collaborate
Single environment to develop and reuse software components and libraries

Commercialise
Deploy workflows as stand-alone graphical applications for market consumption

Everywhere
Develop, execute and share workflows for any desktop, mobile or cloud system

The Workspace ecosystem

Since Workspace's public launch in 2014, over a dozen applications have been developed upon Workspace's expanding ecosystem of plugins
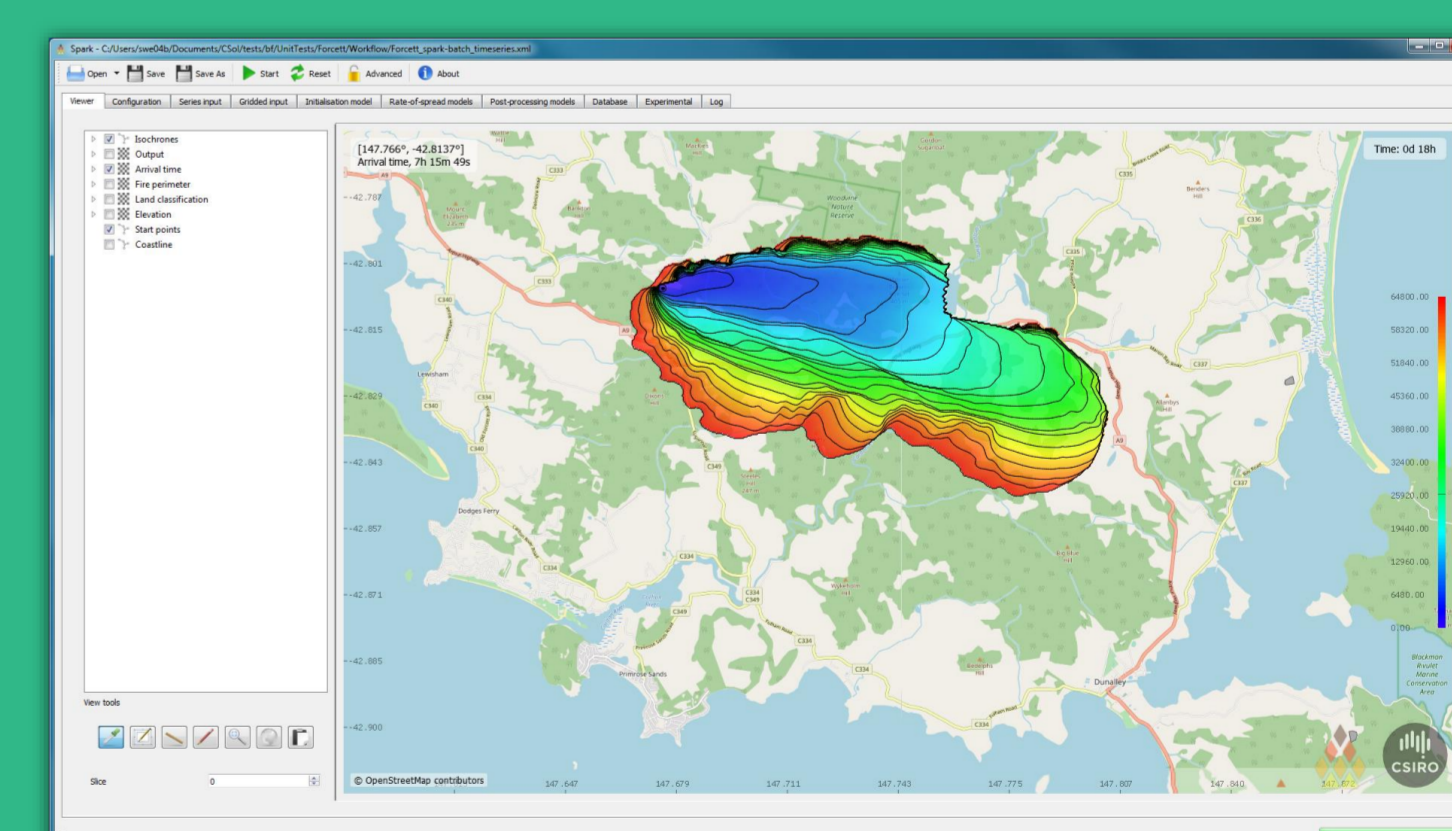
Oventus

- Software tool for rapid customisation of a 3D printed titanium sleep apnoea device for individual patients
- Software has paved the way to scaling up to commercial mass-market delivery
- Over 1000 customised Oventus Clearway Devices™ created in first 12 months of commercial use
- Collaboration between Oventus, CSIRO Data61 and Manufacturing
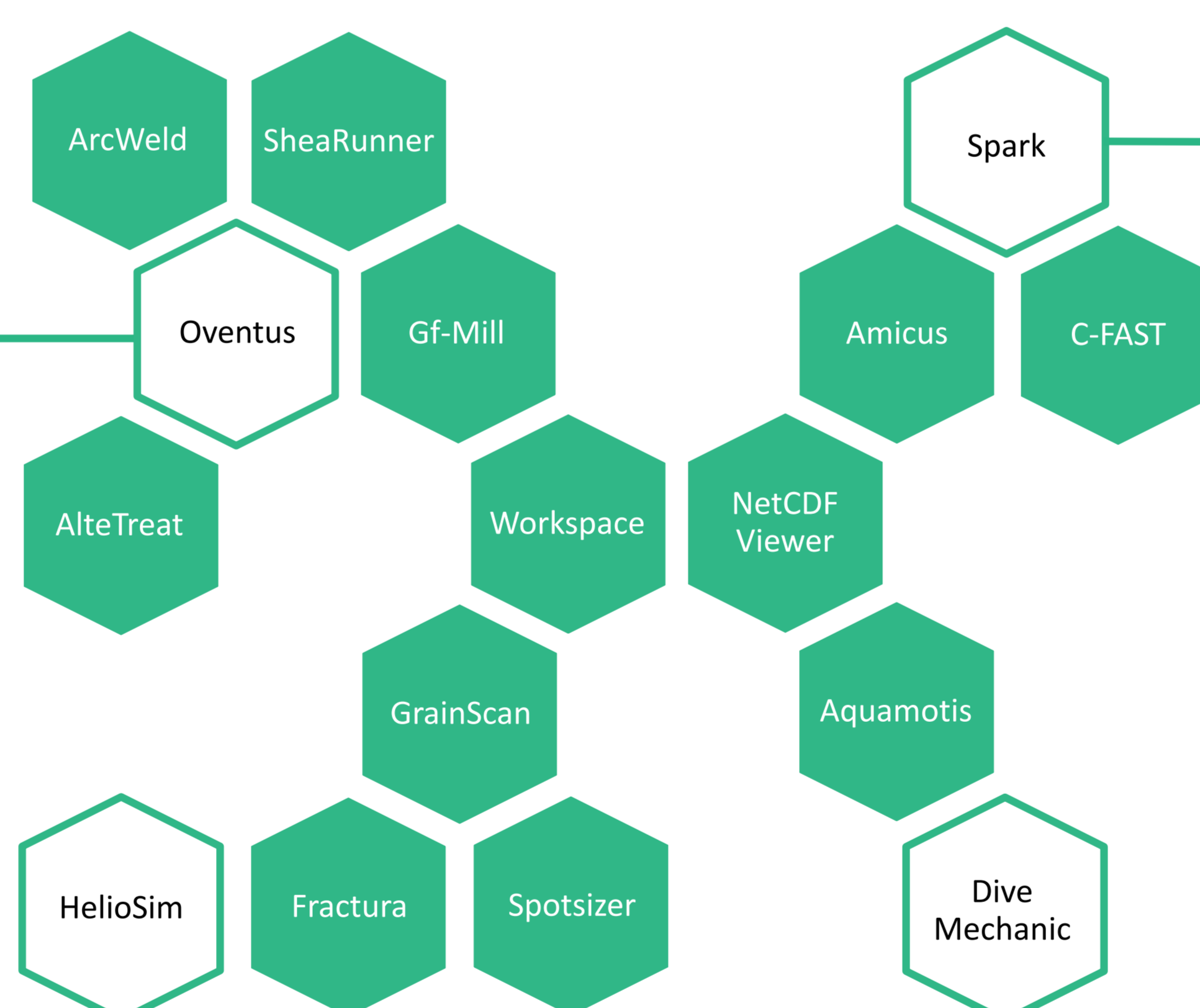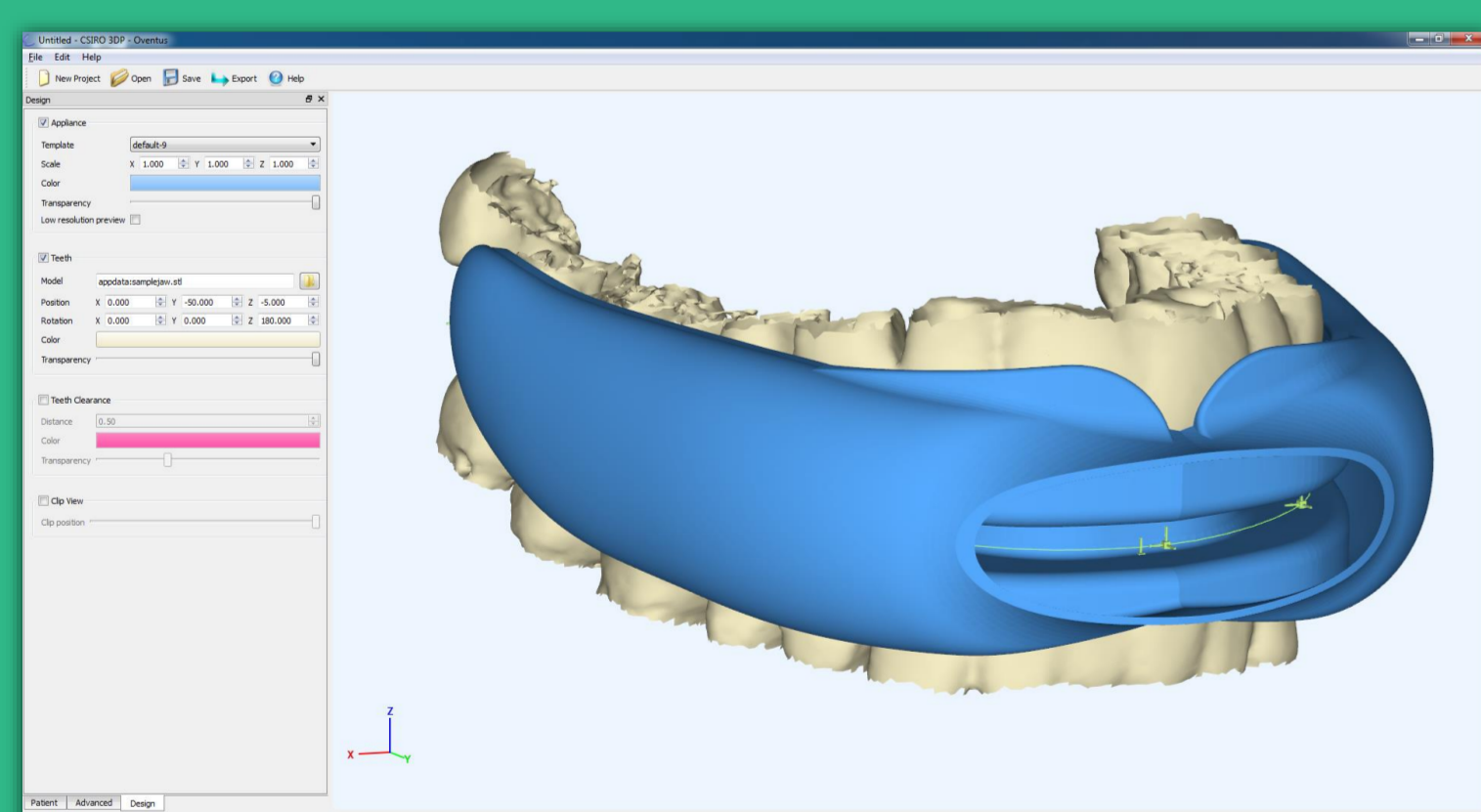
Spark

- A fully featured bushfire simulation package with customisable fire propagation algorithms
- Augments risk assessment capabilities of emergency services, consultants and insurance providers
- Community safety through better planning of prescribed burns and evacuations
- Collaborative development between CSIRO Data61 and Land & Water

ArcWeld | SheaRunner | Spark
Oventus | Gf-Mill | Amicus | C-FAST
AlteTreat | Workspace | NetCDF Viewer
GrainScan | Aquamotis
HelioSim | Fractura | Spotsizer | Dive Mechanic

Heliosim

- Commercial software package for the simulation and optimisation of concentrating solar thermal (CST) power plants
- GPU and multi-core accelerated ray tracing model
- Developed by CSIRO Energy as part of an Australian Renewable Energy Agency (ARENA) project
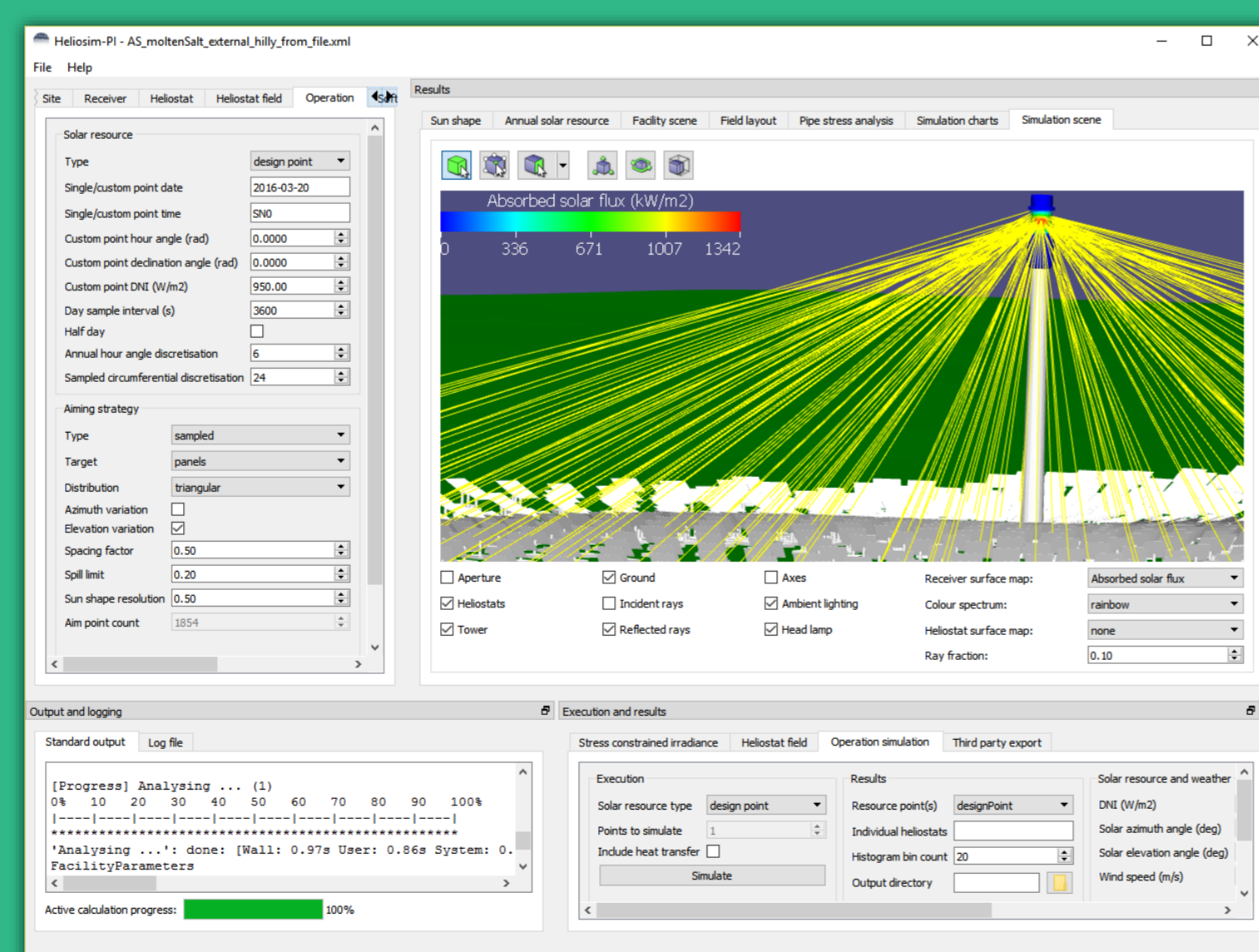
Dive Mechanic

- Software tool that predicts aerial dynamics of elite divers and provides analytics for diving selectors and biomechanists
- Allows coaches to visually communicate concepts to divers for technique and synchronisation refinement
- Collaboration between Diving Australia, the Australian Institute of Sport and Data61
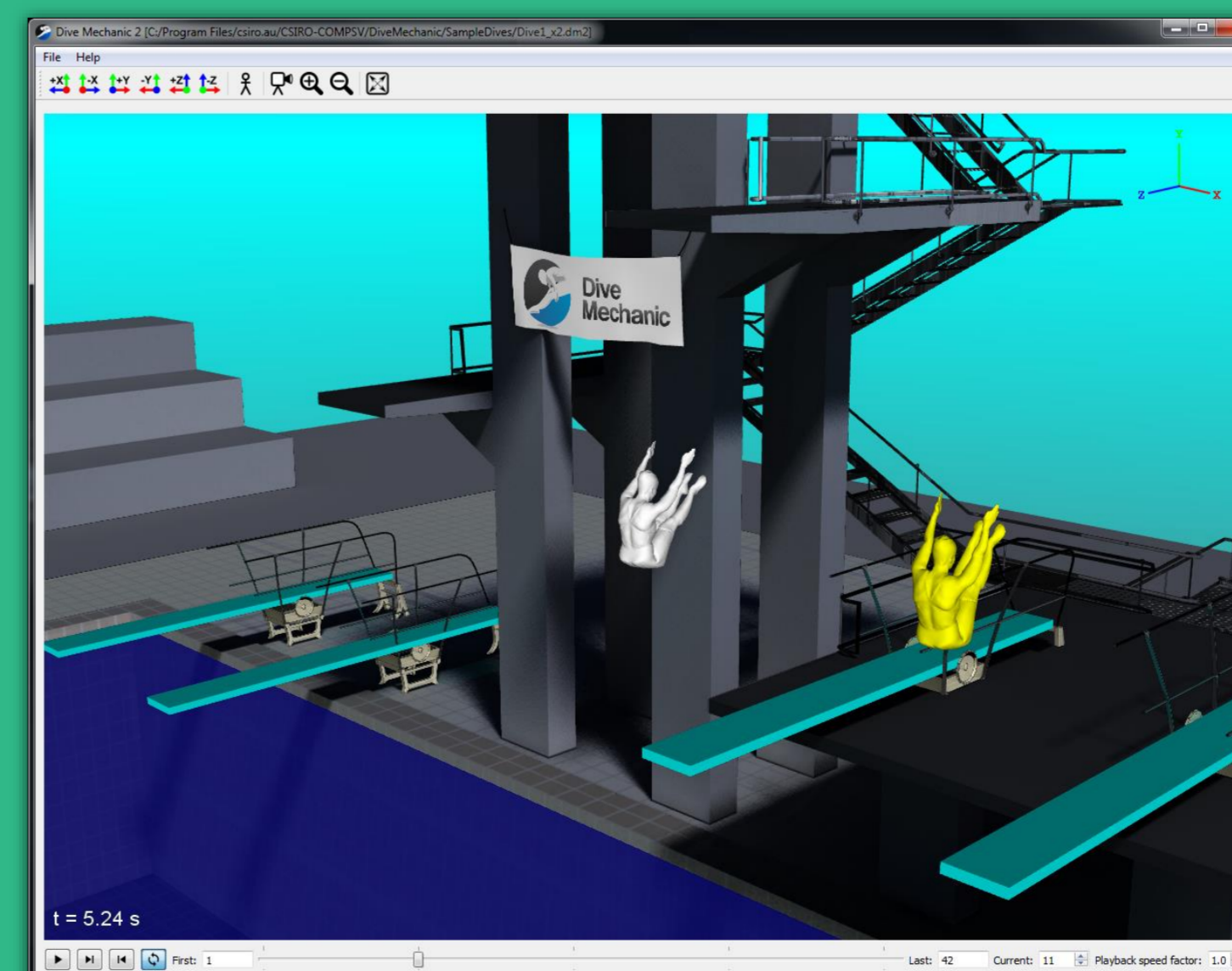
Analyse > *Collaborate* > *Commercialise* > *Everywhere*