A generic approach to understanding complex environmental systems

Lehrprojekt Prof. Peter J. Edwards, D-USYS

Environmental Visualization Objects (EVOs) facilitate teaching in environmental systems science

THE EVO GROUP

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PD Dr. Werner Eugster — Agroecology
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Prof. Eduard Kissling — Earth science
Prof. Ruben Kretzschmar — Soil science
Prof. Jonathan Levine — Plant ecology
Prof. Ulrike Lohmann — Climate Science
Prof. Sonia Seneviratne — Climate Science
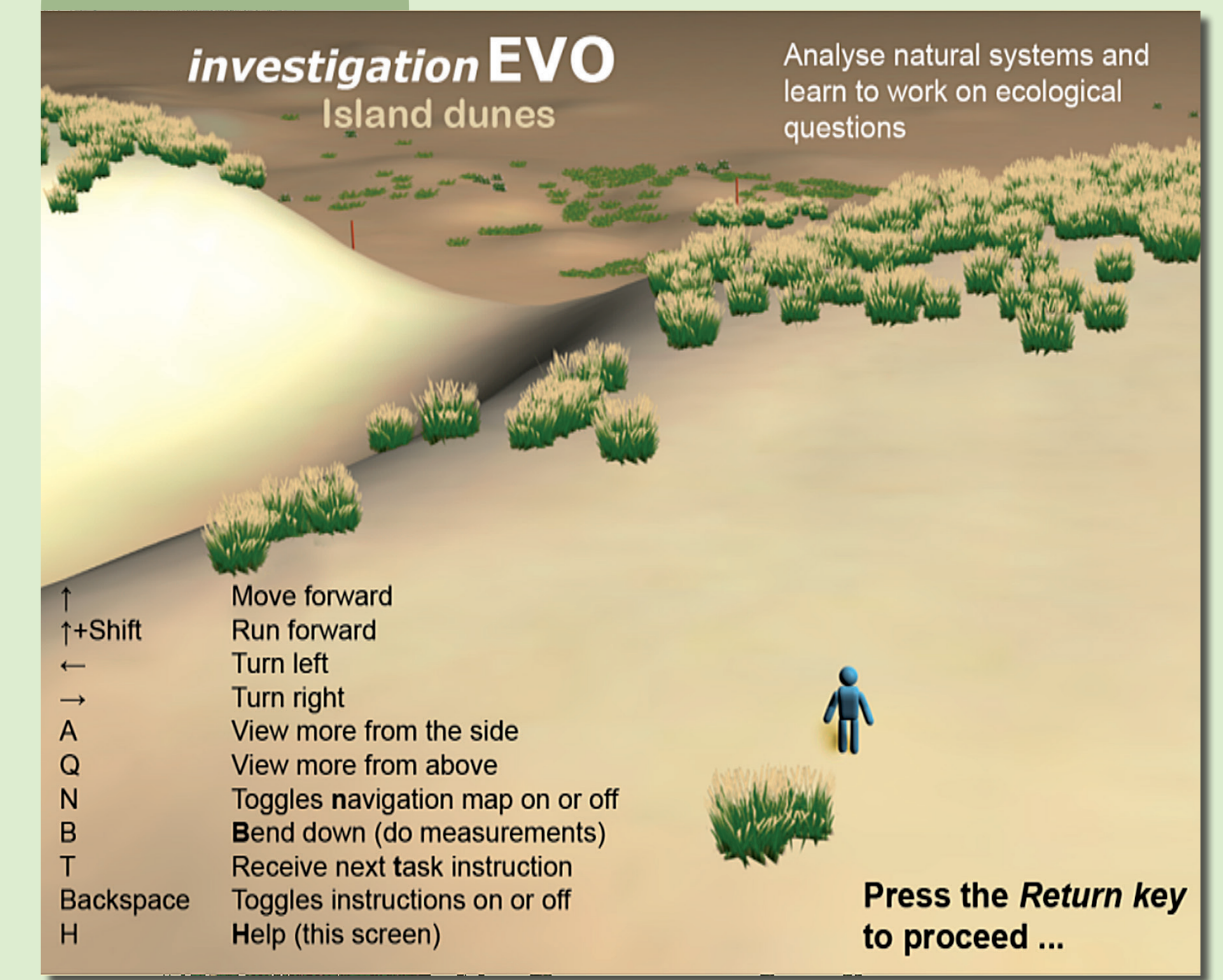Prof. Achim Walter — Agroecology

EVO types

Students use *Fundamentals EVOs* for familiarizing themselves with complex natural systems.
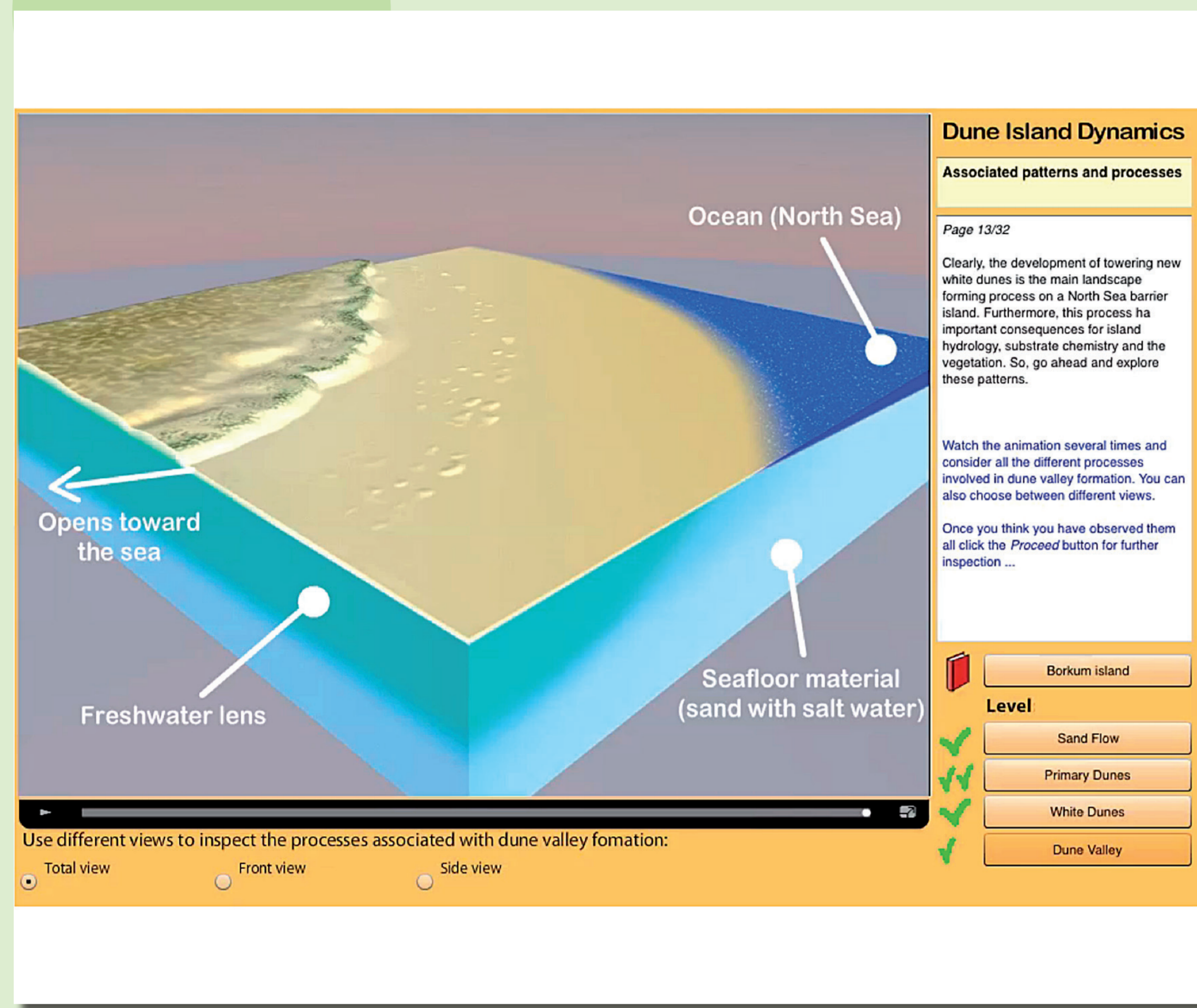
Students use «real-time» *Modeling EVOs* for modeling and analyzing system processes.
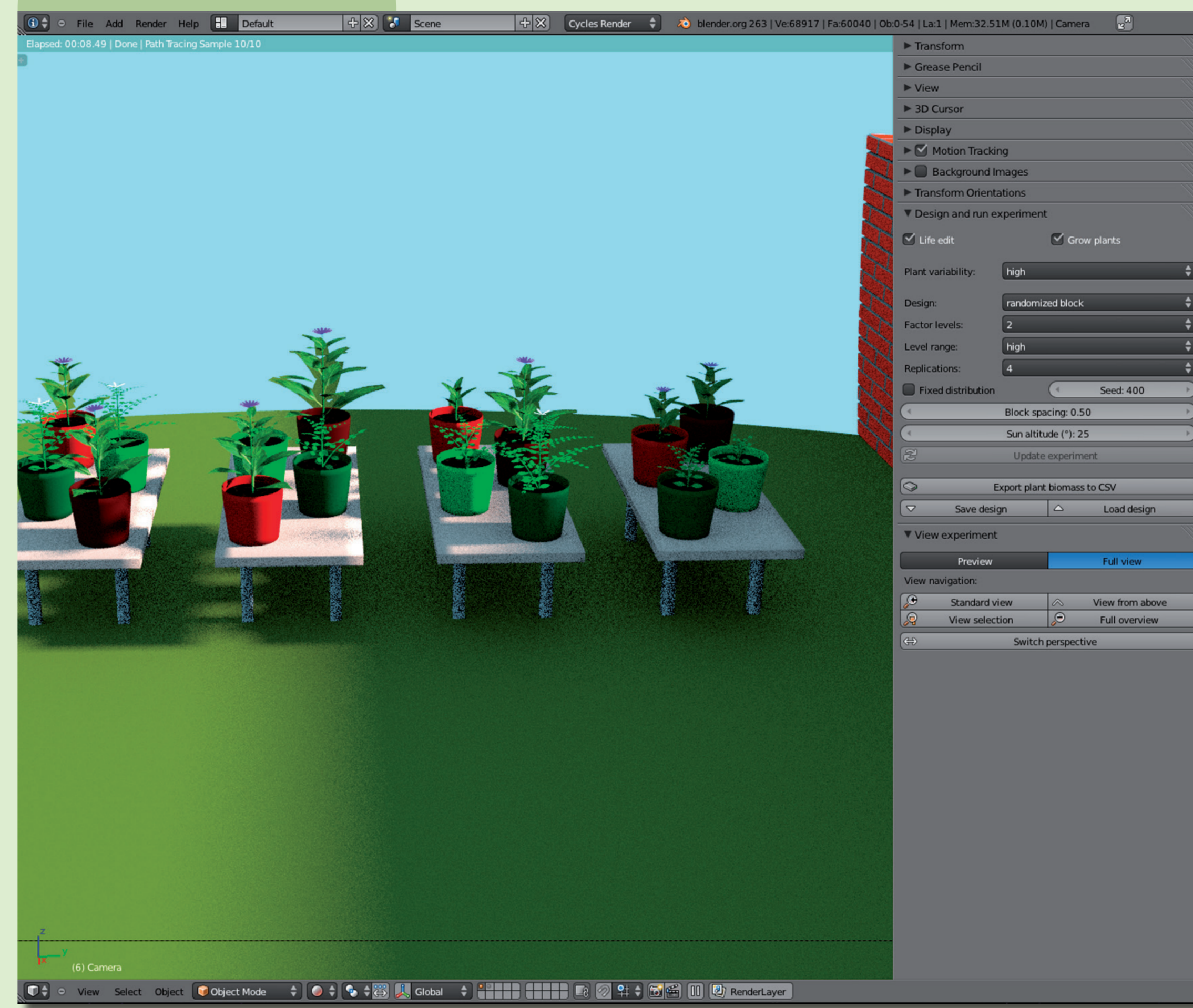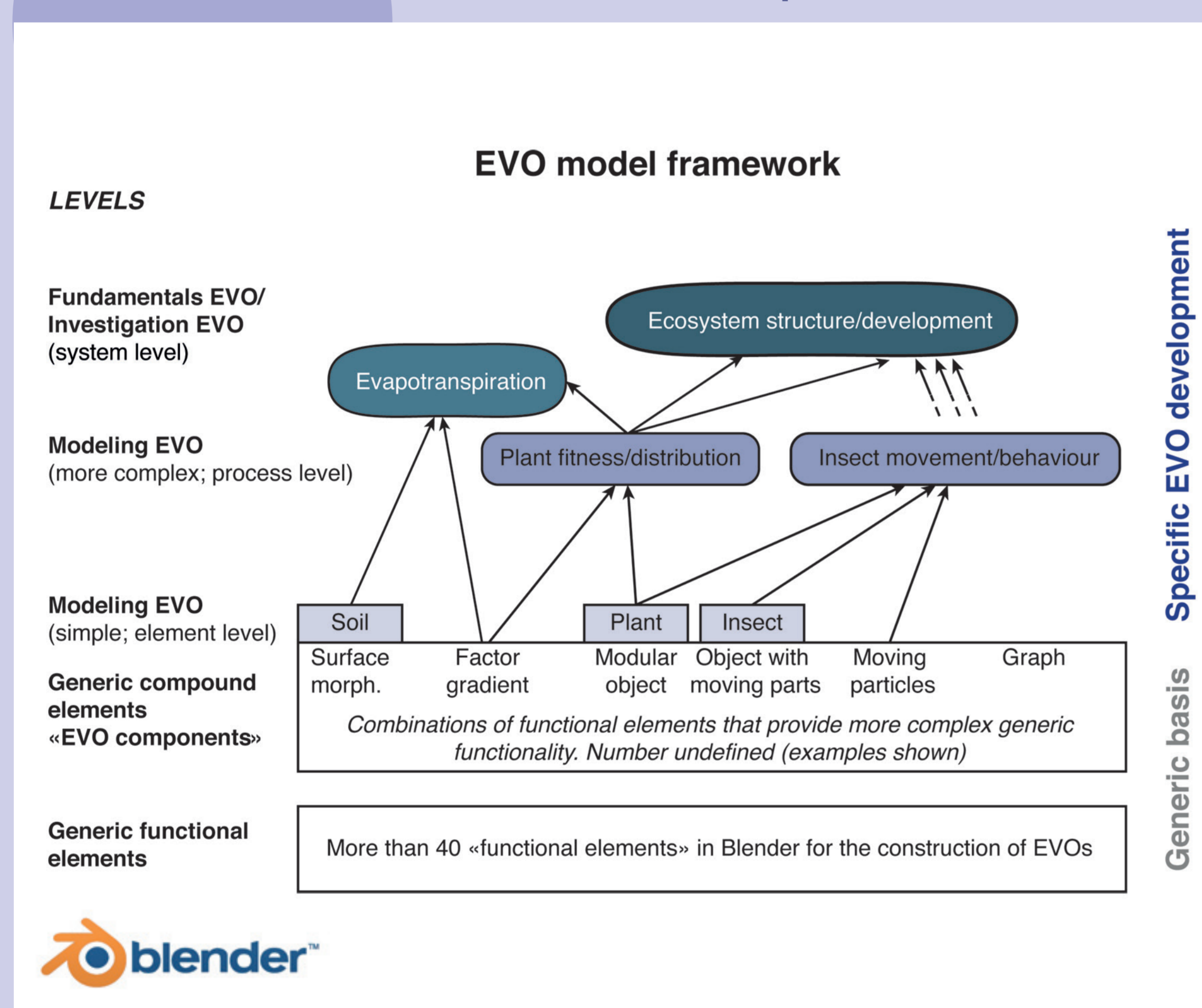
Students use *Investigation EVOs* for pattern investigation and practicing scientific methodology.
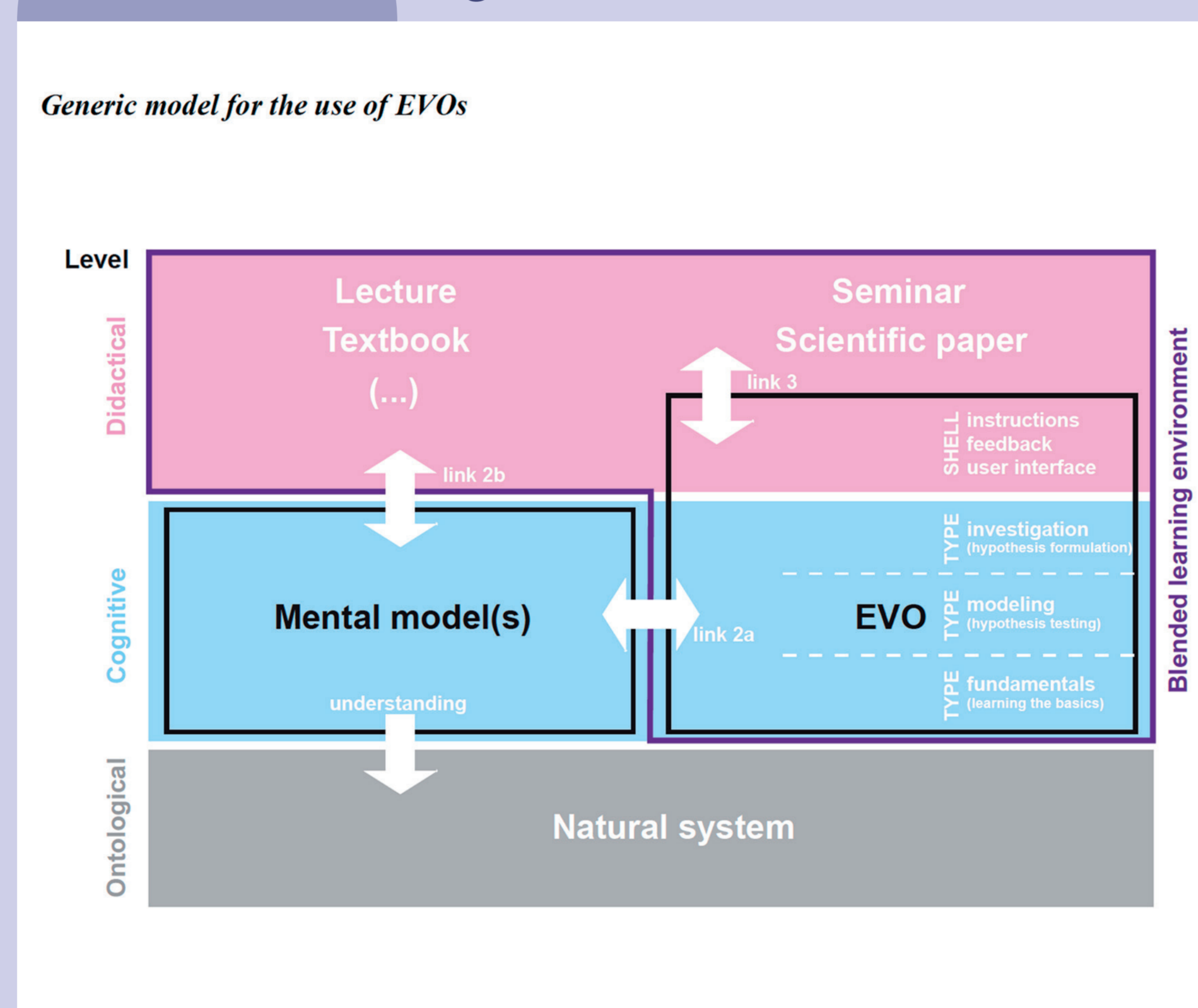

Generic framework

Our EVO model framework builds upon a generic set of basic functions and components.

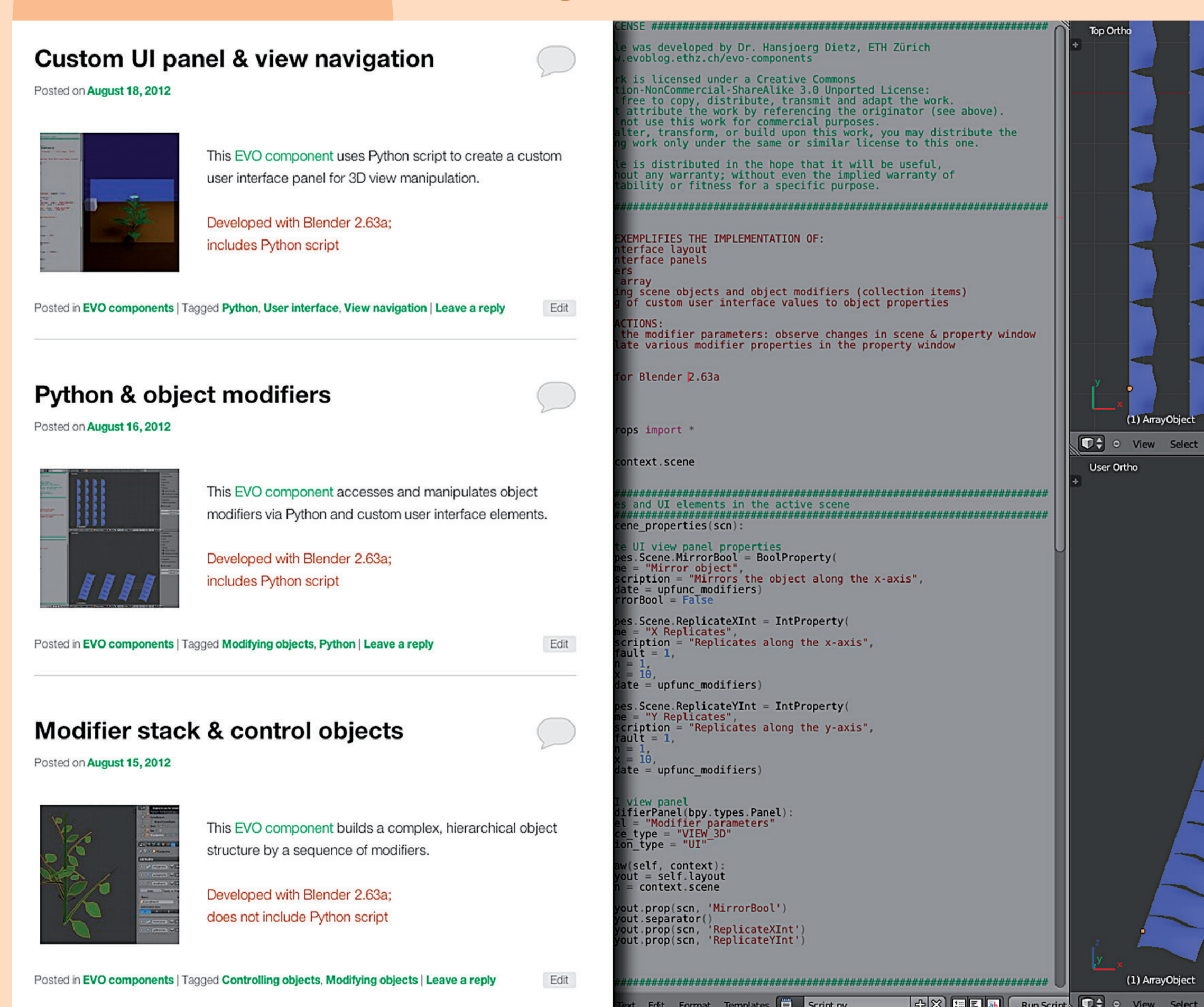Our experiences will help in developing optimal blended learning contexts for the use of EVOs.

Our generic approach yields a great variety of assets for illustrations, presentations and teaching.
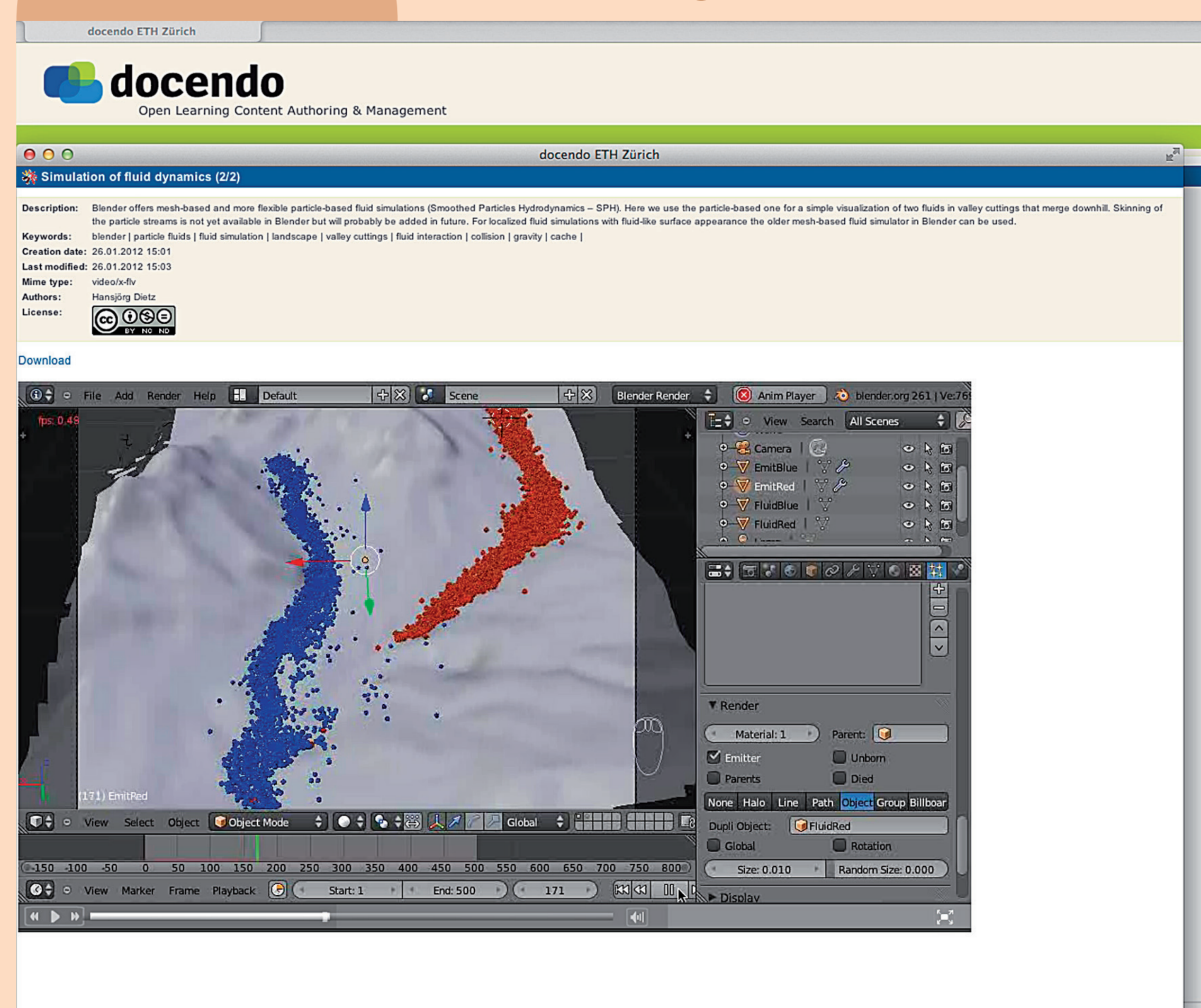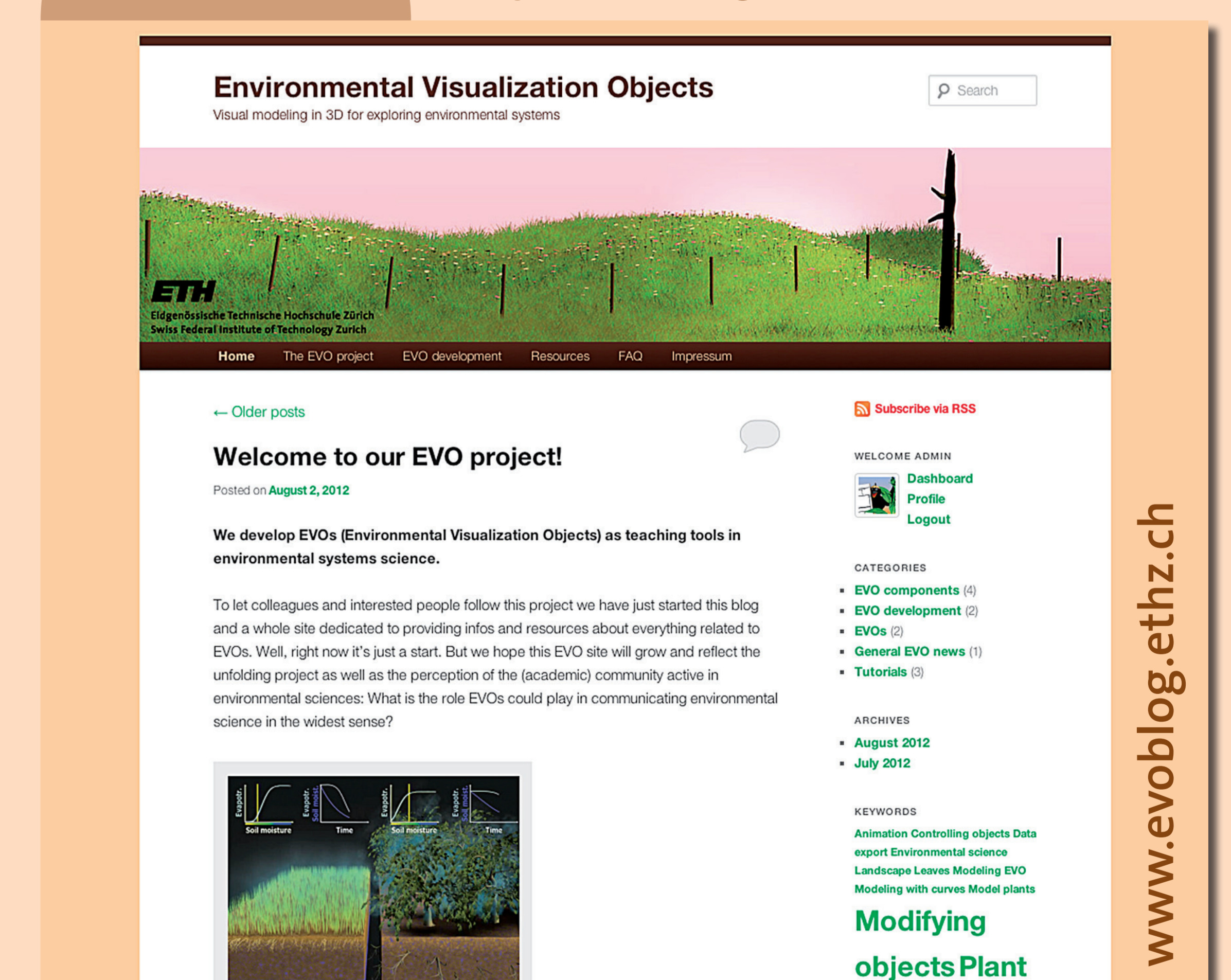

Info & Development

We provide EVO components, functional building blocks for developing EVOs of all kinds.

We provide different online courses with video-based tutorials for learning EVO development.

We run an EVO Blog which provides information, resources and project management functions.

www.evoblog.ethz.ch

innovedum

Innovedum Anlass, 7. und 21. November 2012

www.innovedum.ethz.ch