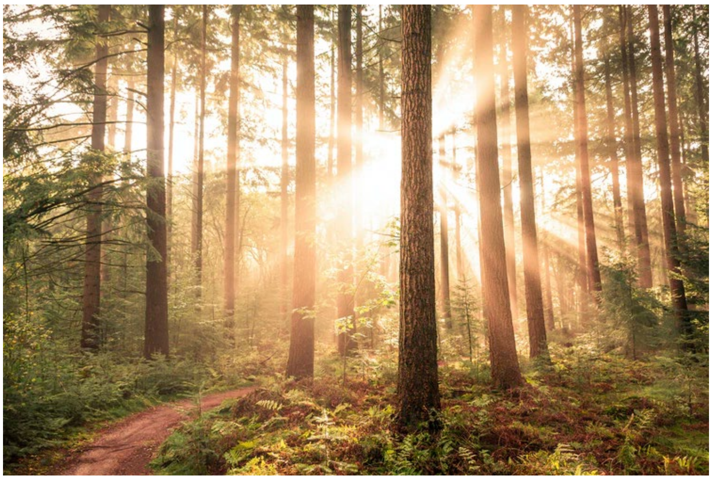
 

Live session at the IUFRO World Day (Slide show)

Spatial decision support for environmental analysis and planning with EMDS

Division 4 – Forest Assessment, Modelling and Management – Unit 4.03.00

28 September 2021, 21:45 – 22:00 UTC

Portland, Oregon, USA (on the IUFRO World Day Map)

To join us, please register for the IUFRO World Day: Registration

You will find us at the host city on the Interactive Map

ABSTRACT

The Ecosystem Management Decision Support (EMDS) system (http://emds.mountain-viewgroup.com/) is a spatial decision support (SDS) framework developed by the USDA Forest Service to support spatially enabled environmental analysis and planning. At version 8, EMDS runs as an add-in to ArcGIS Desktop, but an initial cloud-based service and open-source GIS solutions will be available in 2021.

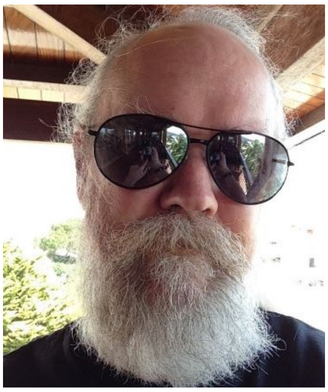
The framework approach to SDS makes EMDS suitable for supporting a very wide range of complex, multi-scale SDS problems, because the questions and scales addressed as well as model and data requirements are all determined by EMDS application developers. The system uses workflow technology to manage the interoperability of four complementary analytical engines for logic-based or probabilistic reasoning, and strategic or tactical planning. The presentation presents a prototypical example of engine interoperability to support an adaptive management process for maintaining or restoring ecosystem integrity or resilience.

KEYWORDS

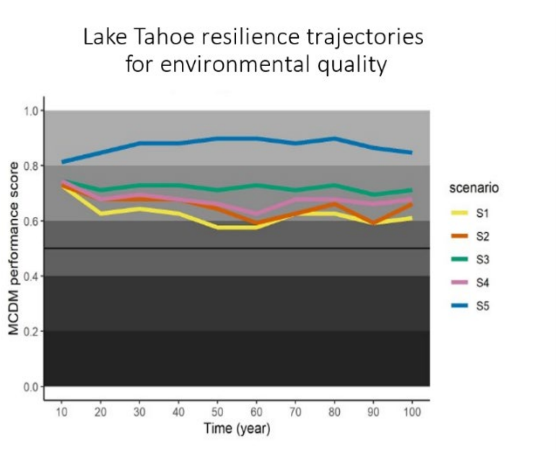
- Sustainable Forest
- Management Forest
- Assessment Landscape Planning
- Forest Health

SPEAKERS

Dr. Keith M Reynolds



Dr. Reynolds is a research forester with the USDA Forest Service Research. He has been developing spatial decision support technologies and their applications for environmental analysis and planning for the past 30 years.
Provide speakers' names, bio, photo here



Tracking performance of forest ecosystem resilience for five management scenarios for the Lake Tahoe Basin (USA) in the 21st century.