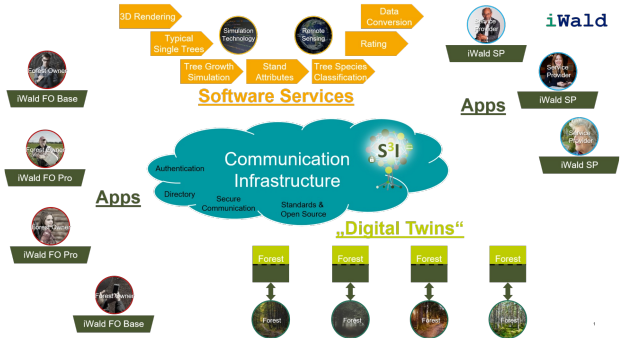
iWald | Forest growth simulation app



Comparison of silvicultural treatment concepts by simulating forest growth processes on the smartphone.

In the iWald project, a system is being developed enabling forest owners to obtain realistic and technically sound options for the sustainable management of their forests. The individual objectives of the forest owner (private, communal, state) are taken into account as well as the forestry risk minimization and the sustainable conversion of forests while safeguarding the economic, ecological and social forest functions. One of the main results of iWald will be the "iWald App", which can be used to simulate forest growth processes on a smartphone. This will be provided with different entry barriers, so that both the forest layman and the trained forester will find their access to iWald. The goals include activating forest owners, who can thus approach their forest on a playful level, or improving public acceptance of forestry interventions through the possibility of simple visualization of future consequences.

DéTAILS

ORIGINE DU BOIS
--

TYPE DE BOIS
--

TYPE DE BOIS CONCERNé
--

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé
Economic, ecological and social forest functions are integrated into the apps decision support system.

EFFET SUR LE REVENU
--

POTENTIEL D'EXPLOITATION
--

HUB
Centre-Ouest

IMPACT éCONOMIQUE
--

CONNAISSANCES SPéCIFIQUES REQUISES

POTENTIEL DE MOBILISATION
High, activation of forest owners to initiate forestry interventions is encouraged by the game character of the app.

POTENTIEL DE DURABILITé - VALEUR
Très positif

FACILITé D'IMPLéMENTATION
The solution is not yet available on the market.

FACILITé D'IMPLéMENTATION - ÉVALUATION
Difficile

PRéREQUIS CLéS
--

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE
--

EFFET SUR L'EMPLOI
--

COûTS D'IMPLéMENTATION (EURO - €)
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PLUS DE DéTAILS

DéFI CONCERNé

1. Améliorer la résilience de la forêt et son adaptation au changement climatique

DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

TYPE DE SOLUTION

Modélisation, DSS, simulation, optimisation

MOTS-CLéS

tree growth simulation

apps

private forest owners

service providers

SOLUTION DIGITALE

Oui

INNOVATION

Oui

PAYS D'ORIGINE

Allemagne

ECHELLE D'APPLICATION

Nationale

DéBUT ET FIN D'ANNéE

--

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

RWTH Aachen, Institute for Man-Machine Interaction

Dr.Ing. Martin Hoppen

hoppen@mmi.rwth-aachen.de

https://www.mmi.rwth-aachen.de/en/research/applications/environment/

RAPPORTEUR

FBZ

Dr. Marie-Charlotte Hoffmann

marie-charlotte.hoffmann@wald-und-holz.nrw.de

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

https://www.mmi.rwth-aachen.de/projekt/iwald/

SITE WEB DU PROJET

https://kwf2020.kwf-online.de/portfolio/iwald/

RéFéRENCE DU PROJET

iWald, funded by FNR under no. 22012818

RESSOURCES

LOGO DE LA BONNE PRATIQUE

iWald

LOGO DE L'ORGANISATION PRINCIPALE

Institut für Mensch-Maschine-Interaktion

PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY