

VIRTUAL FORESTS:

IO6. Citizen involvement in forestry:

MOOC

Palencia, July 5th



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Erasmus+ Programme
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Call 2020 Round 1 KA2 - Cooperation for innovation and the exchange of good practices

KA226 - Partnerships for Digital Education Readiness



AgroParisTech



[cese]for.

AgroParisTech: National Institute of Technology for Life, Food and Environmental Sciences

- Delivering degrees from master level to PhD
- Under the authority of the French Ministries of Agriculture and Higher Education & Research.
- Academic partnerships: 85 foreign univ. / 27 countries
- Some figures
 - ~ 2 200 students (16% international)
 - 450 PhD students,
 - ~ 350 PhD students (34% international)
 - 230 academic staff
 - 24 joint research units + 1 R&D unit (17/ 24 with INRAE)
 - Top international ranking in agriculture & forestry field



IO6. All they want to know about forestry but were afraid to ask

- Citizens
 - Growing interest of citizens for forest + a decreasing connection with Forestry
 - Critical towards forest management, they are keen to understand and argue
 - In search for a more meaningful job, some of them want to prepare a professional retraining
- Students
 - Increasing diversity in students population
 - eg: PHD students with no background in forest management
- Other populations:
 - Forest managers facing information demanding citizens
 - Local representatives, mayors of forest owning community
 - People working in wood sector



2020: MOOC development



- Two professors:
 - Meriem Fournier, INRAE, senior researcher (from wood sciences to collaboration with social sciences)
 - Myriam Legay, AgroParisTech, forest engineer with background in forest management and planning, and research-development
- Regional founding and collaborations
- Inputs from ONF (French forest service) and from National center for Private forestry
- Implementation on FunMOOC platform: Gouvernemental MOOC platform. Open access MOOCS



<https://www.fun-mooc.fr/fr/cours/comprendre-la-gestion-forestiere/>



2021, 2022, 2023 sessions

2021, 1st session: 7303 attendees from 101 countries (71 % from France)

2022, 2nd session: 4549 attendees from 70 countries (71 % from France)

2023, 3rd session: 3372 attendees from 78 countries (73% from France)

- English transcriptions provided
- Webinar on forest health with presentation of Silvalert platform and challenge by IEFC
- Podcast of the webinar provided on the platform: 92 views



DEPARTEMENT DE LA SANTE DES FORETS



MOOC program in 5 weeks



5 weeks course:

- S1: What is a forest?
- S2: What does it mean to « sustainably manage » a forest?
- S3: What is silviculture?
- S4: Using wood sustainably
- S5: Innovations and forest management



Each week week is composed of :

- 5 to 7 lessons: a lesson = 1 video + training quizz + supplementary materials (internet links to videos, websites, documents...)
- A weekly evaluation quiz
- Forum

Final evaluation : badge obtained if mean quizz results $\geq 50\%$



S1: What is a forest?



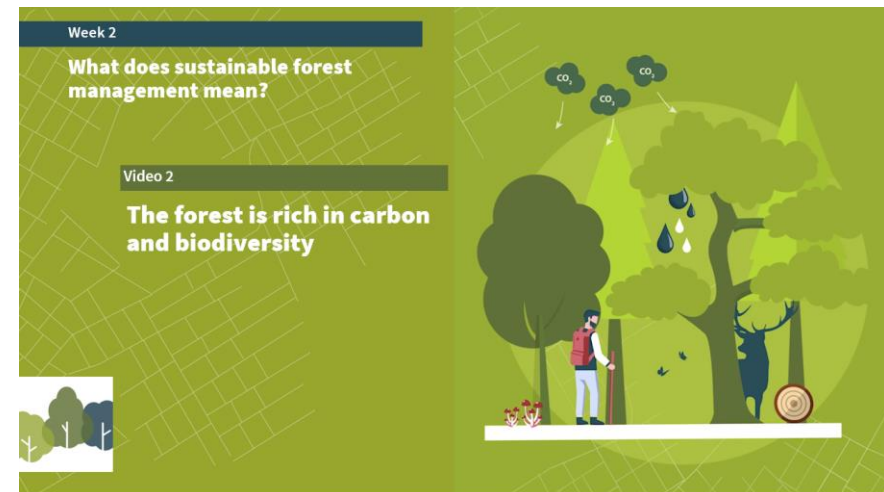
- S1V1: What is a forest?
- S1V2: Where are the forests and where do they come from?
- S1V3: Open and dense forests, basal area
- S1V4: The different types of forest
- S1V5: A forest in the reflection of its environment



S2: What does it mean to « sustainably manage » a forest?



- S2V1: What is the purpose of our forest
- S2V2: Forests are rich in carbon and biodiversity
- S2V3: Threats to the forest: clearing and degradation
- S2V4: Renewal, a key step
- S2V5: Forest planning, at the heart of sustainable management
- S2V6: Sustainable Forest Management: the stakeholders



S3: What is silviculture?



- S3V1: The growth of trees in a stand
- S3V2: The diversity of tree species and their temperaments
- S3V3: The forestry cycle in regular (even-aged) high forests
- S3V5: Silvicultural management of stands in (uneven-aged) irregular high forests
- S3V6: Mixed stand silviculture



S4: Using wood sustainably



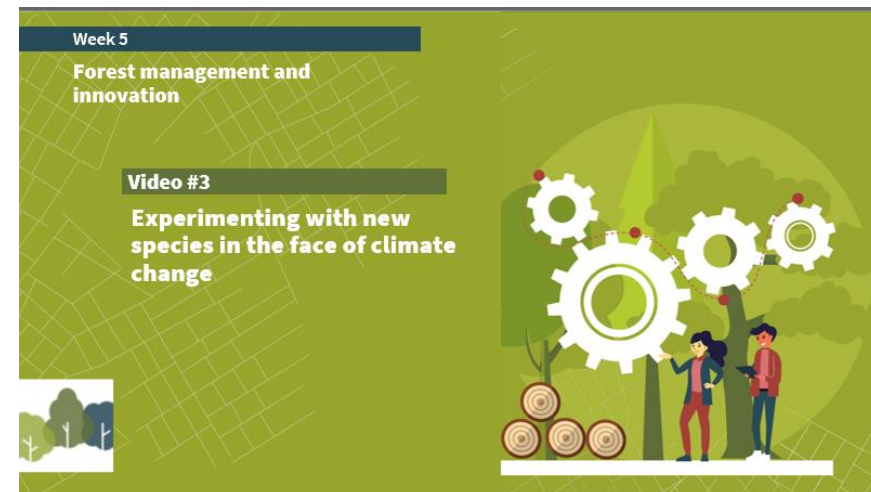
- S4V1: What is wood used for?
- S4V2: What happens between timber in the forest and the wood in your home?
- S4V3: Are there forests dedicated to the supply in specific wood uses?
- S4V4: Harvesting trees for the wood industry
- S4V5: Is timber harvesting good for the climate?
- S4V6: How much carbon is stored and substituted by the forest?
- S4V7: Is my wood boiler sustainable?



S5: Innovations and forest management



- S5V1: Improving monitoring and information available on forests
- S5V2: Improving harvesting, an interview with Didier Pischedda
- S5V3: Experimenting with new species in response to climate change
- S5V4: From the seed to the tree, kickstarting growth in French forests
- S5V5: Joint innovations with wood engineers: visit of the ENSTIB
- S5V6: New forms of governance



Week 5

Forest management and innovation

Video #3

Experimenting with new species in the face of climate change

The thumbnail features a green background with a grid pattern. On the right, there is an illustration of two people standing next to a tree whose branches are shaped like interlocking gears. In the foreground, there are several logs. A small inset image in the bottom left corner shows a forest scene.



Immediate interest and further perspectives

Lessons in English provide the main content of the MOOC for any English speaker

Lessons in English + videos in French are useful for students interested to study forestry in France

Basis for a further collaboration:

- Development of Spanish, German...variants of any lesson that is more or less dependant of the country: silviculture, stakeholders presentation...

