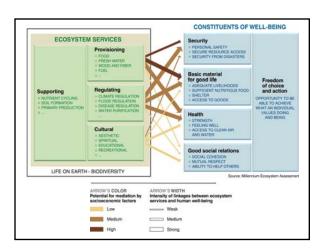
LS 2X03 - Lecture 3 – Ecosystems and Human Well-Being

- 1. Human Well-Being
- 2. Provisioning Services
- 3. Regulating the Environment
- 4. Supporting Services
- 5. Ecosystem Alterations
- 6. The Current Picture

Key Concepts

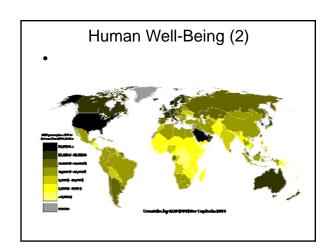
- Human Well-Being
- Provisioning Services
- Regulating the Environment
- Supporting Services
- Ecosystem Alterations and potential for ecosystem rehabilitation
- The Current Picture: trends

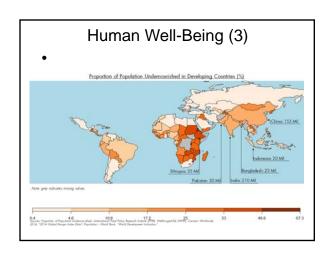


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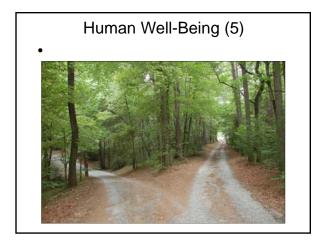
Human Well-Being Security:







Human Well-Being (4) •

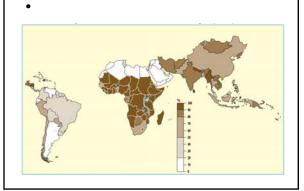




Provisioning Services (2)



Provisioning Services (3)



Provisioning Services (4)

• Traditional medicine:



2. Regulation of the Environment

• Carbon Sequestration



Regulating the Environment (2)

Water Flow Regulation

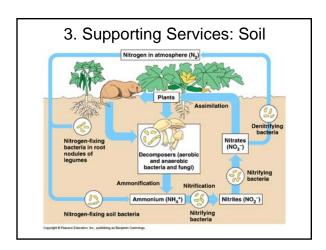


Regulating the Environment (3)

Kyasanur Forest Disease (KFD) Virus Ecology

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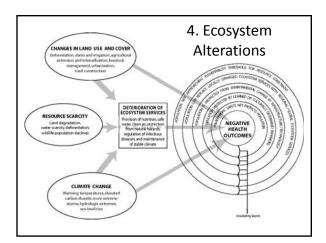




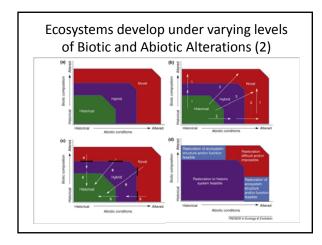


Supporting Services: Grazing

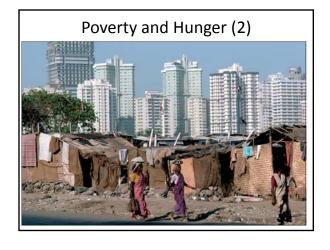




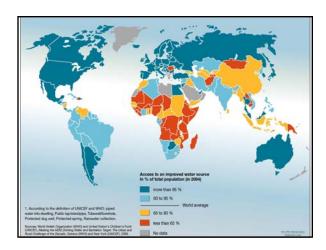
Ecosystems develop under varying levels of Biotic and Abiotic Alterations Biotic threshold Abiotic threshold Fully functional State 1 Level of system function Intact Ecosystem state Hobbs RJ, Cramer VA. 2008. Annu. Rev. Environ. Resour. 33:39-61

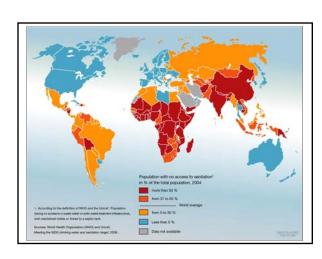


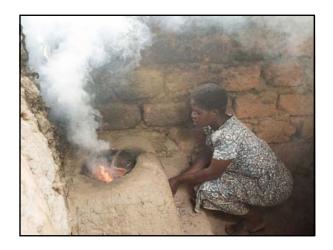


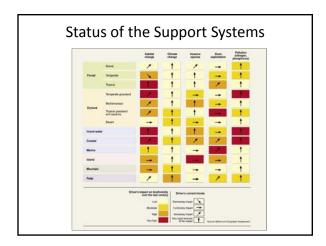


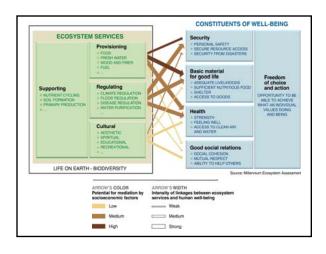












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Concl	IIICIAN
CULL	lusion

- Ecosystem services provide the foundation of human well-being
- Human well-being include multiple interrelated factors including human health
- Mounting negative impacts on ecosystems are associated to poverty, displacement, and human disease

End of Lecture Question

1. Of the services provided by ecosystems, which one do you consider the most important?

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TO DO!

- 1. For next Lecture: read Article 2
- 2. Tutorials this week: Introduction to Term Paper + Group Discussion
