

Integration of sectoral impacts research: cross cutting themes and implications

Jane Stout (TCD)



SIMBIOSYS



Energy crops



Road Landscaping

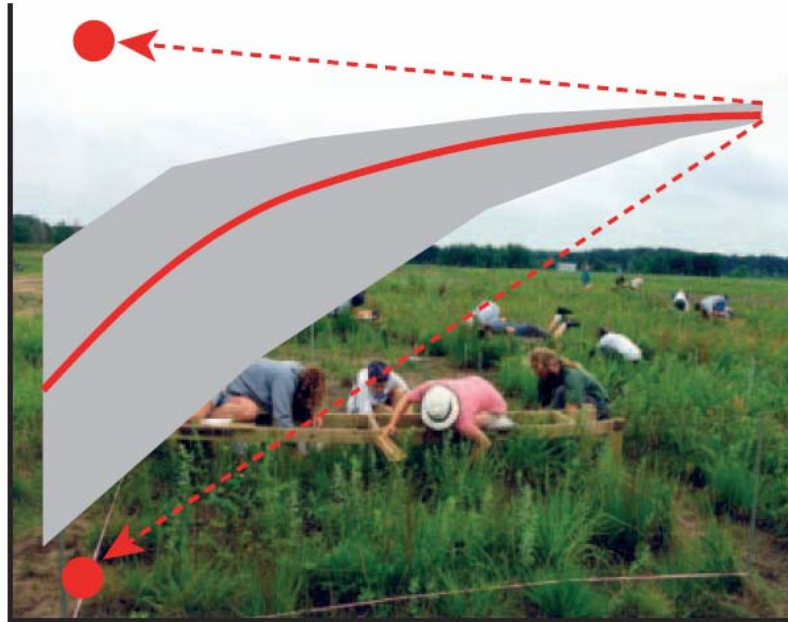


Aquaculture

Key findings

- Different management approaches affect different aspects of biodiversity
- Positive relationship between species richness and services across landuse types/systems

Ecosystem
function
(resource capture,
biomass production,
decomposition, nutrient
recycling)



Biological diversity
(variation in genes, species,
functional traits)



Biodiversity and society: win-win solutions?

- Lower inputs: cheaper, better for biodiversity
- Increase miscanthus yield => more C sequestration
- Triploid oysters: decreased risk of spread & quicker growth



Implications

- Increased biodiversity increases delivery of some ecosystem services
- Appropriate management can be achieved if there are clear goals in terms of services
- Temporal/spatial issues?
- Multiple pressures?

For discussion

- Which ecosystem services do we want to manage for, what are the priorities, how do we achieve multi-functional ecosystems?
- SIMBIOSYS project focus is biodiversity, but social, economic and policy context will drive management – comment/perspective?
- What next, what further research is needed?