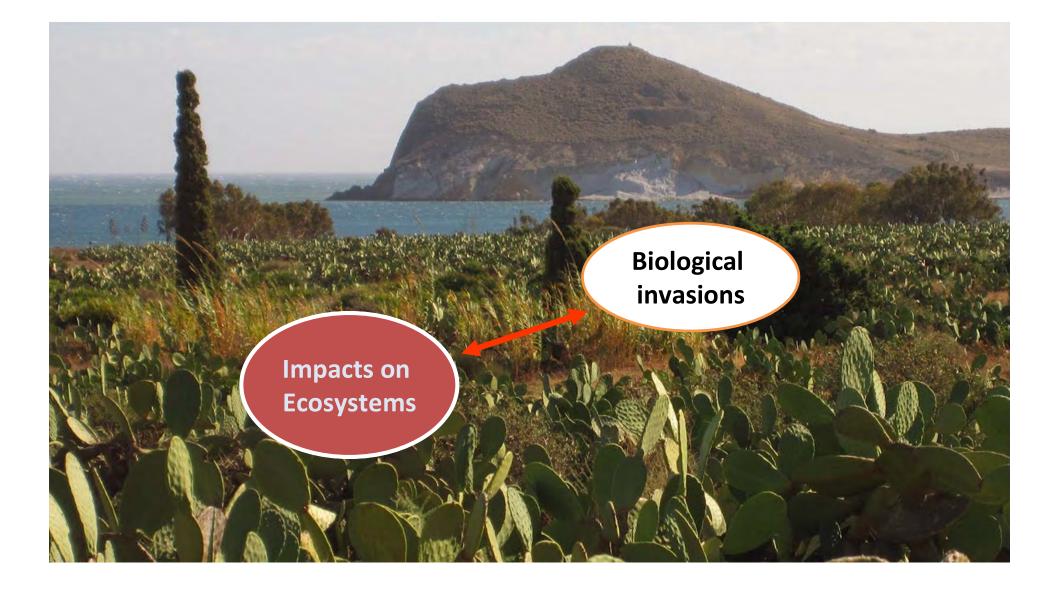
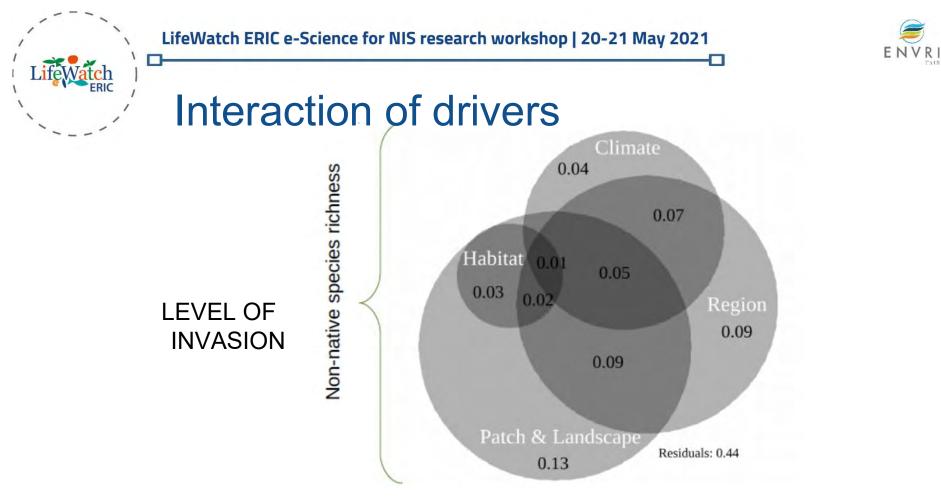


The impact of agriculture and forest Non-native Invasive Species

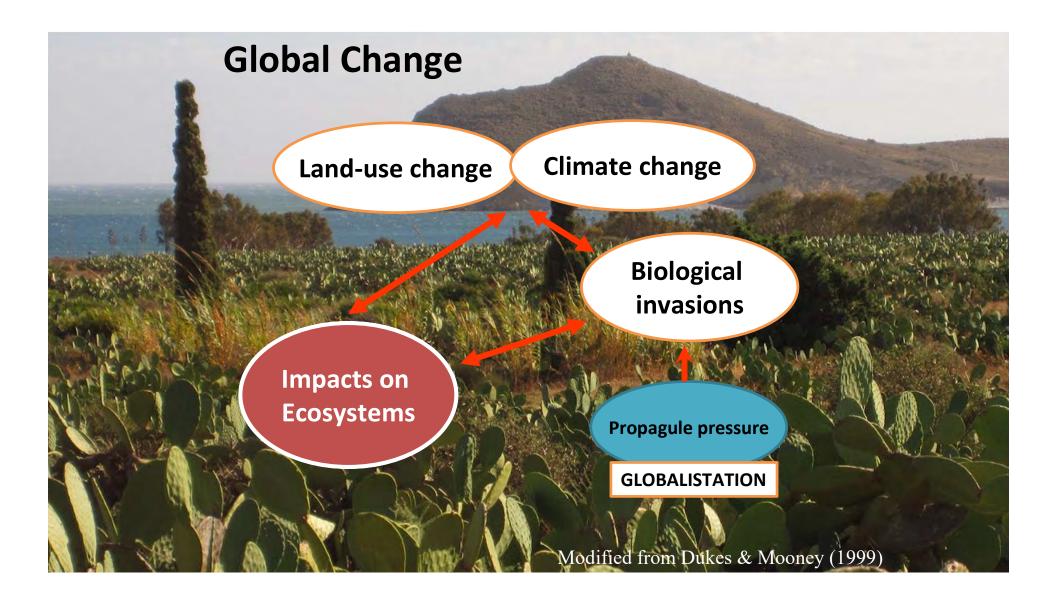


Pablo González-Moreno. University of Córdoba (Spain)

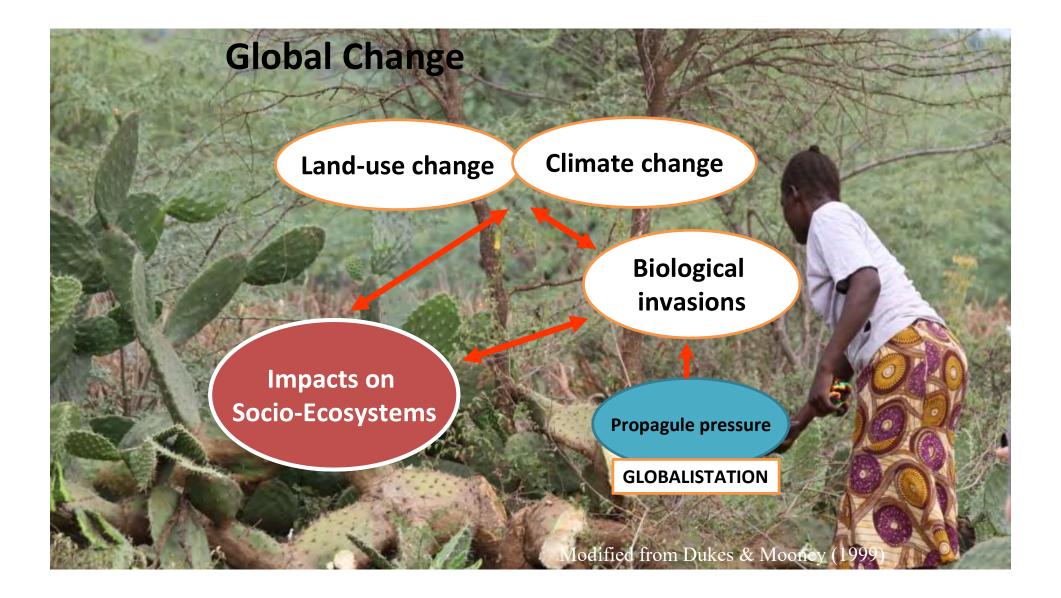


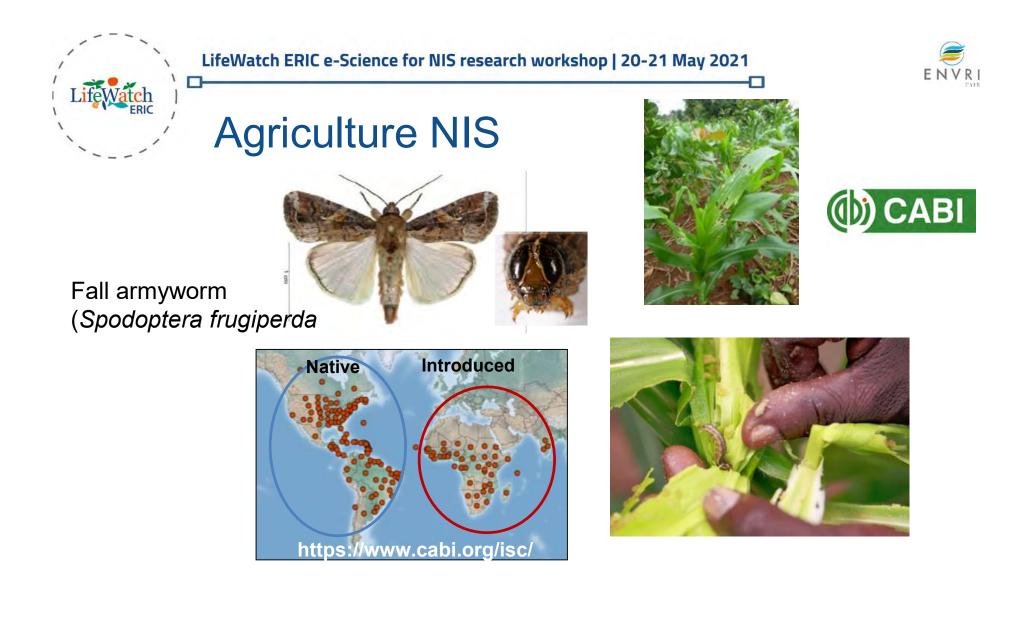


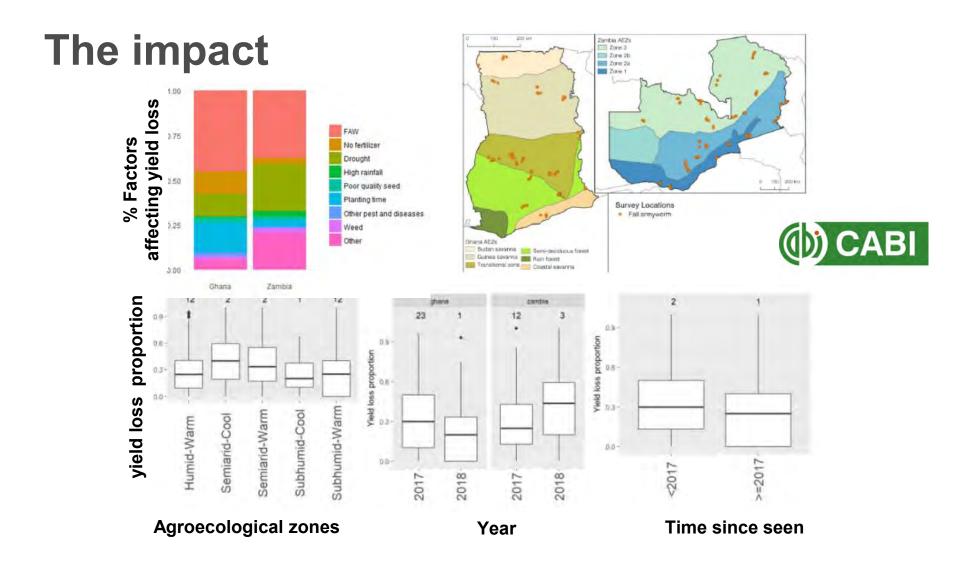
González-Moreno et al 2013 Landscape Ecology

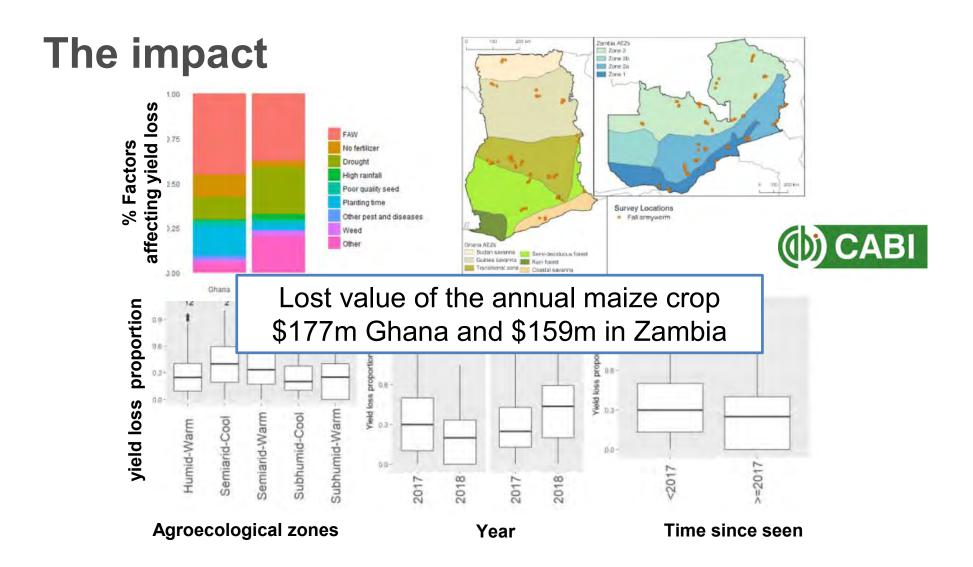






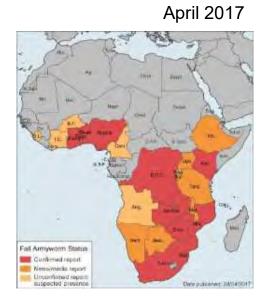




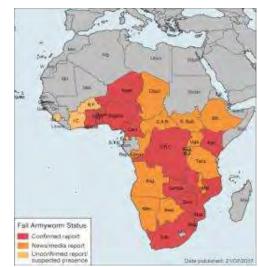




First official report in West Africa in 2016 (Goergen et al. 2016 PLoS ONE)



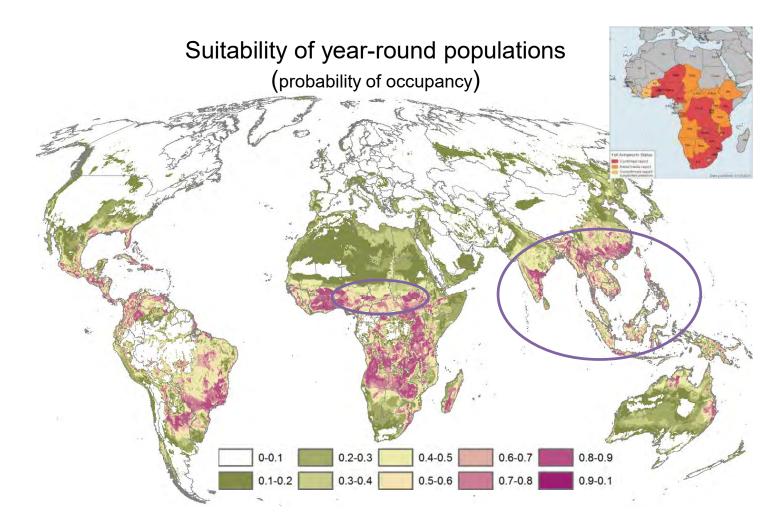
September 2017



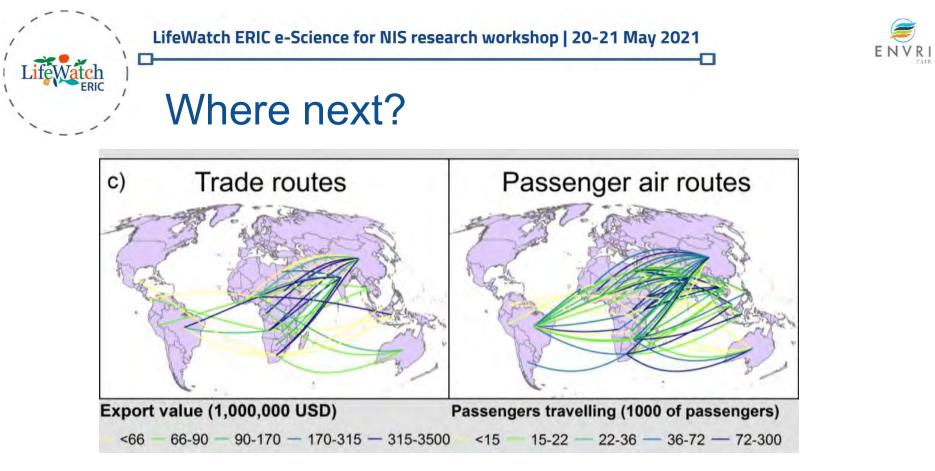


ENVRI

all Armyworm Status
Confirmed report
News/media report
Unconfirmed report/ suspected presence



Early et al 2018. Neobiota



Early et al 2018. Neobiota



First official report in West Africa in 2016 (Goergen et al. 2016 PLoS ONE)

April 2017

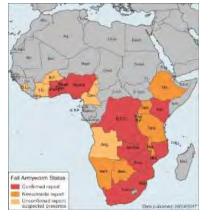


September 2018

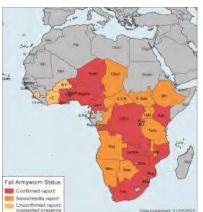
Fall Armyworm Status

Confirmed presence Suspected presence/ awaiting confirmation

No reporta



Fall Armyworm Status Confirmed report News/media report Unconfirmed report/ suspected presence



2018 First reported in India!



ENVRI

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Forest decay and NIS



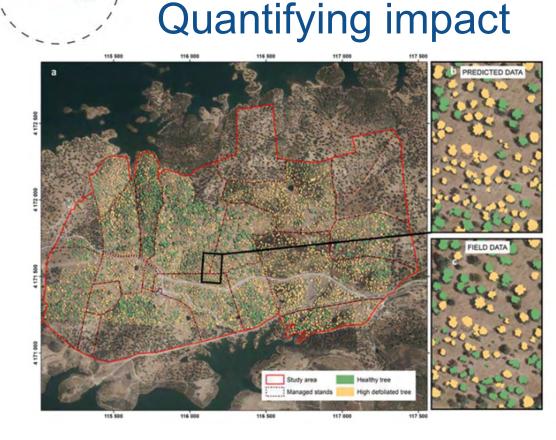


© Esperanza Sánchez UCO

Invasive soil pathogen Phytophtora cinnamomi

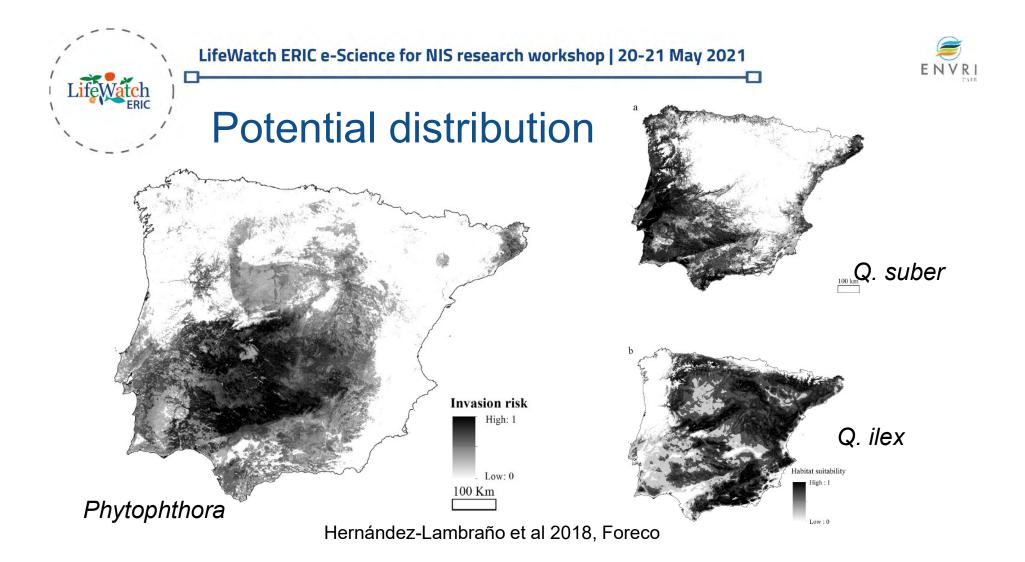
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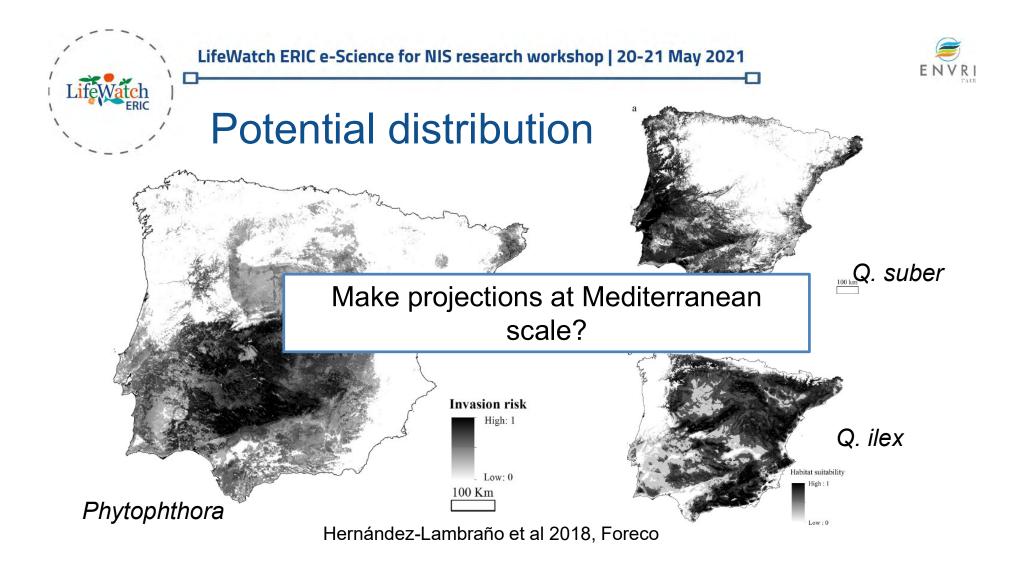


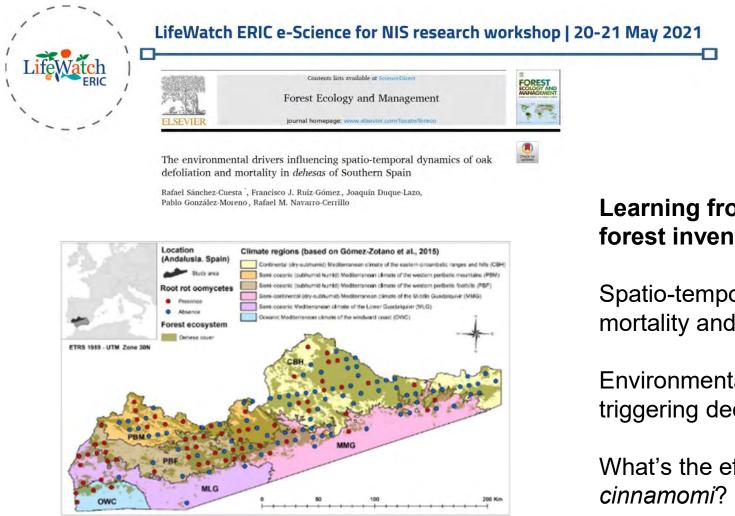


- Detecting defoliation from "above"
- Multispectral WorldView-2 (WV-2) and Airborne Laser Scanning (ALS) overall classification accuracy (86.7%) and the highest Kappa index (0.73).

Navarro-Cerrillo et al. 2019, Foreco









Learning from standardized forest inventories:

Spatio-temporal patterns of mortality and defoliation?

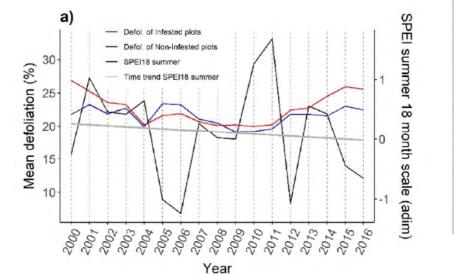
Environmental factors triggering decay?

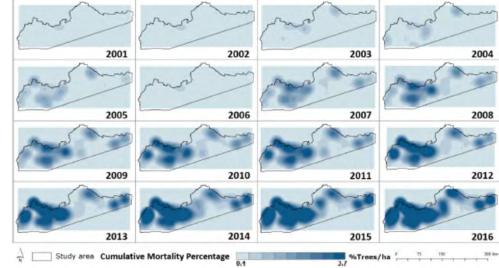
What's the effect of *P*.

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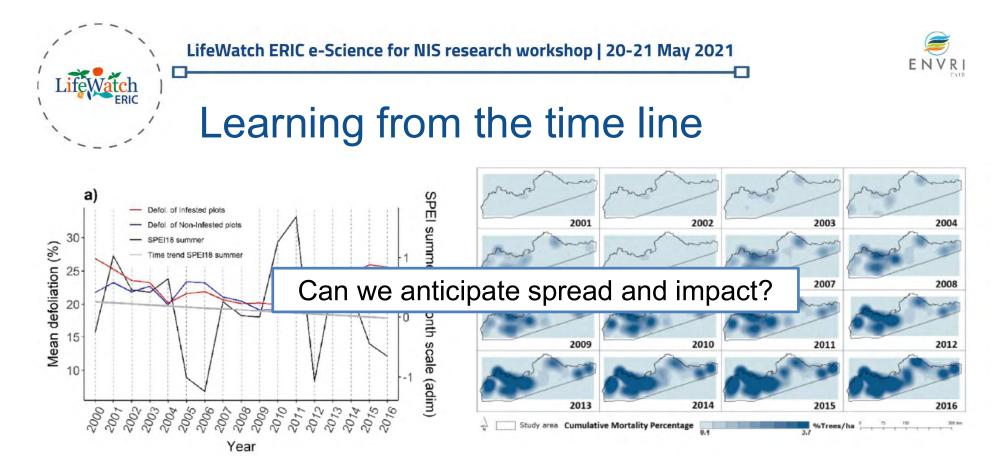


Learning from the time line





Sánchez-Cuesta et al 2021. Foreco



Sánchez-Cuesta et al 2021. Foreco





- Include the temporal domain.
- Long term monitoring of IAS and their **drivers** in systematic designs for FAST analysis and response
- Providing evidence. Monitoring impact on socioecosystems, both positive and negative.
- Novel technologies: remote sensing at high spatial, temporal and spectral resolution





Thank you!



PABLO GONZÁLEZ-MORENO
Pablo.gonzalez@uco.es
Twitter: @pglezmoreno