

An aerial photograph of a rural agricultural landscape. The scene is dominated by vibrant green fields, likely rice paddies, which are divided into irregular plots by narrow earthen paths or ditches. In the center-right of the image, there is a prominent, elongated pond with a brownish, slightly murky surface. The surrounding area is densely packed with green vegetation, including various trees and shrubs. A dark, semi-transparent rectangular overlay is positioned on the left side of the image, containing white text. A white line is drawn on the image, starting from the text area and pointing towards a specific location in the agricultural fields.

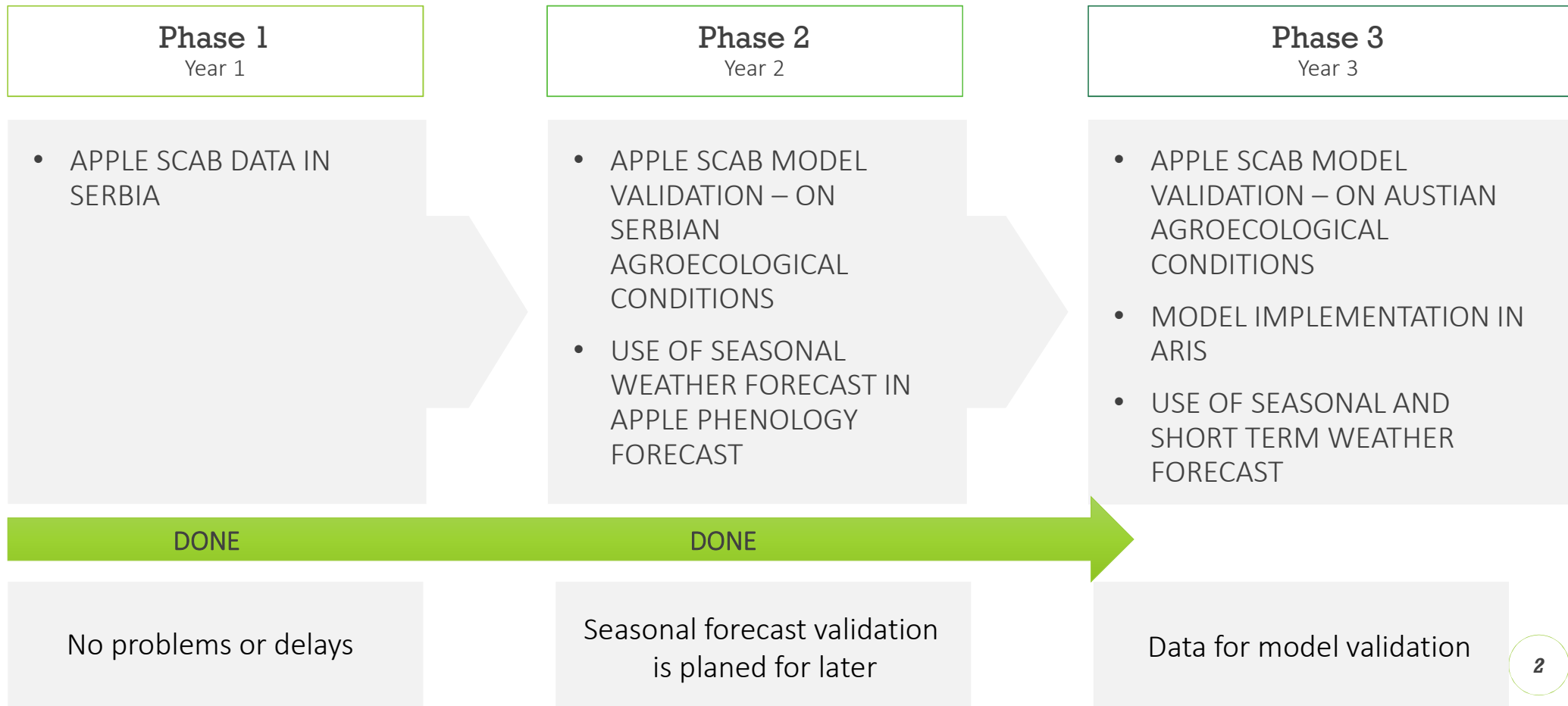
PFNS

AGROFORECAST

WP3 - Development of tailored agro-meteorological forecast products on different lead time scales at farm level (Start: 10/19 End: 9/22)

PFNS PROGRESS LINE

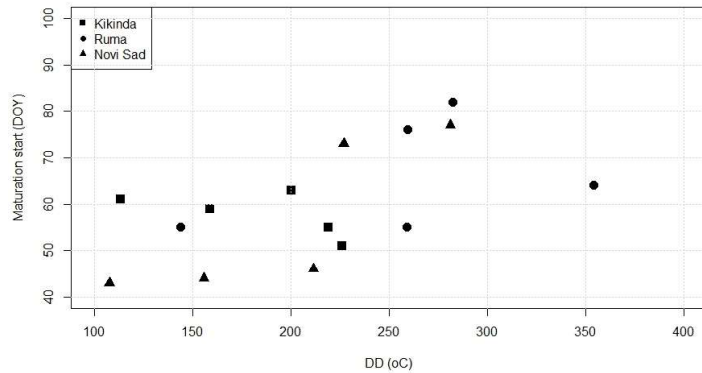
How will we scale in the future



Publishing/dissemination

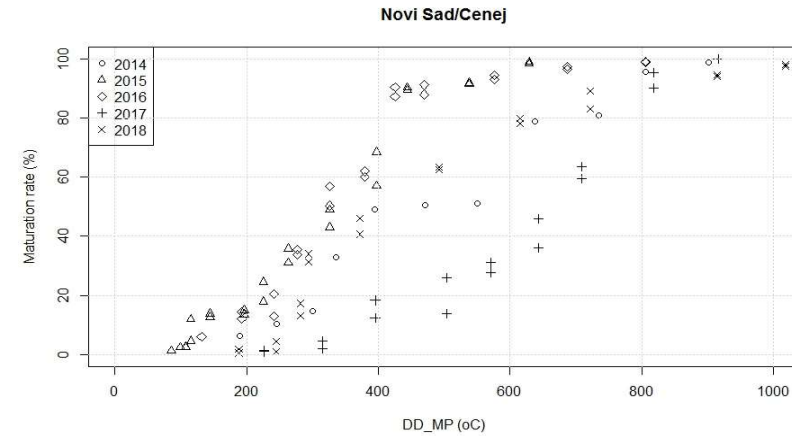
- A decade of harmful organism and micrometeorological conditions operational monitoring in Serbia: *Venturia inaequalis* case study – *Conference presentation*

Graph 1. Ascospore maturation start in respect to accumulated degree-days (DD)



Region	Period of monitoring
Senta	2013-2021
Novi Sad	2013-2021
Kikinda	2014-2021
Ruma	2014-2021
Vršac	2015-2021
Jagodina	2014-2021

Graph 2. Ascospore maturation rate in respect to degree-days during maturation period (DD_{MP}) on Novi Sad/Cenej locations



Mills criteria for Apple Scab, regresion

Or

$$M = f(DD, H, RVL, D_{day}, W_{day})$$

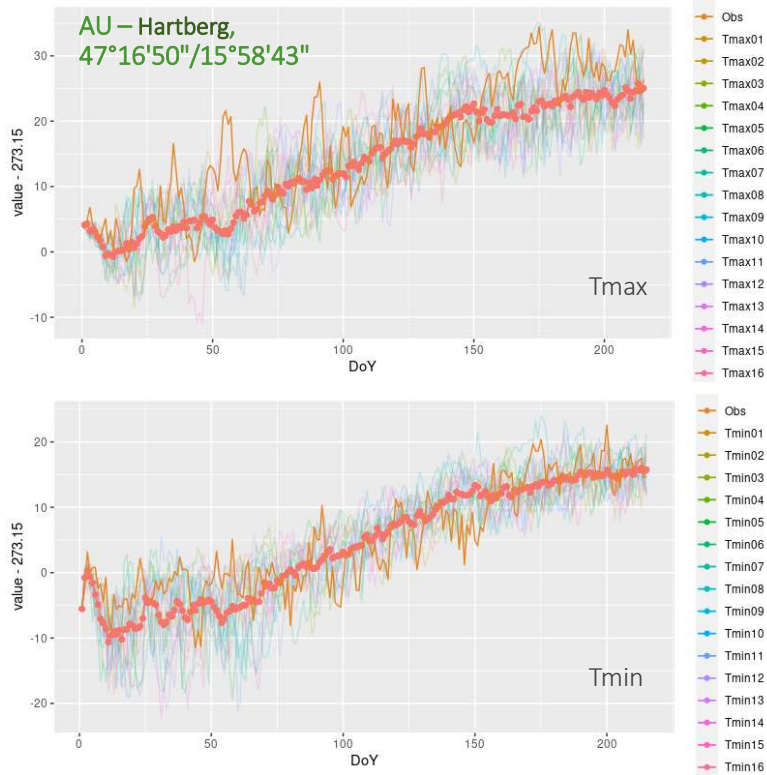
- accumulated degree-days for $T_b = 0$ °C (DD) and
- precipitation (H), during the whole maturation period (denoted by subscript MP)
- the number of dry (D_{day}) and wet (W_{day}) days,
- average relative humidity (RVL)

$$\frac{dM}{dt} = \frac{\partial M}{\partial t} + \frac{\partial M}{\partial DD} \frac{dDD}{dt} + \frac{\partial M}{\partial H} \frac{dH}{dt} + \frac{\partial M}{\partial RVL} \frac{dRVL}{dt} + \frac{\partial M}{\partial D_{day}} \frac{dD_{day}}{dt} + \frac{\partial M}{\partial W_{day}} \frac{dW_{day}}{dt}$$

Conference presentation

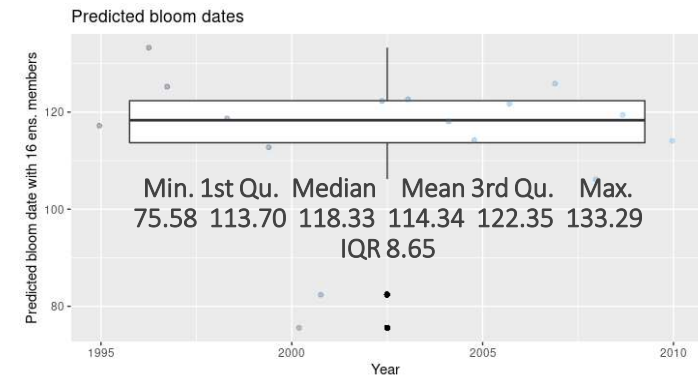
- Modelling phenology of the Central European apple: The seasonal forecast application perspective – EMS2021 (Ana Firanj Sremac, Branislava Lalic, Josef Eitzinger, Stefan Schneider)

2021 – 7 month – 16 ENS members



Publishing/dissemination

PhenoFlex – AU – 16 Ens. members



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