

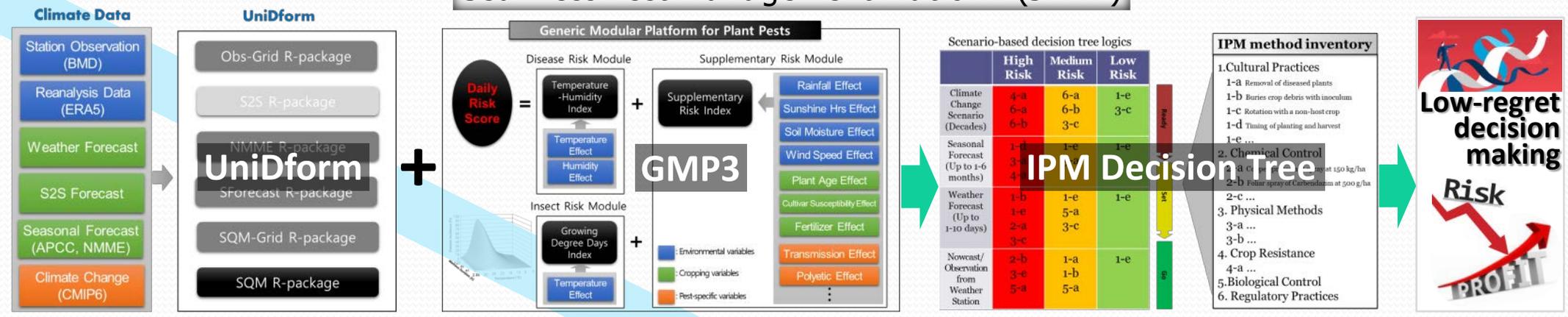
What is the underlying idea of this project?

- As **seamless climate information** become available and skills are increasing, it is now possible to take advantage of them for **seamless pest management** to spread risks from unexpected outbreaks of diseases and insect pests resulting in significant crop loss.
- This innovative approach is based on the **Ready-Set-Go** concept of **climate services** from the WMO, where integrated pest management takes place based on climate information with different lead time.

Expected outcomes

- From this pilot exercise, the stakeholders will understand the technical and operational mechanisms and practical feasibility of the seamless pest management platform, used as a good model case leading to further scaling out to other neighboring provinces and countries.
- Crop disease/insect pest epidemics, which are expected to increase in intensity and frequency due to climate change and variability, will be effectively managed with low-regret decision making.

Seamless Pest Management Platform (SPMP)



Climate Change Scenario

Projection for next 10-30 years

SPMP

Potentially high risk of rice blast

Decadal IPM strategy

- ✓ Breeding for blast resistant variety
- ✓ Irrigation infrastructure construction to reduce water stress
- ✓ Systemic blast incidence data collection for the development of effective early warning
- ✓ Explore new cropping areas with less blast risk

Seasonal Forecast

Seasonal outlook for next 1-6 months

SPMP

Low risk of rice blast

Seasonal IPM strategy

- ✓ Planting dates with maximum rice yield with moderate resistant cultivar
- ✓ Planting density to maximize rice yield under current water and fertilization
- ✓ Stock agro-chemicals and fertilizers similar to normal years

Sub-Seasonal Forecast

S2S outlook for next 15-30 days

SPMP

Medium risk of rice blast

Sub-Seasonal IPM tactics

- ✓ Increase rice paddy monitoring to detect early symptoms in seedlings
- ✓ Apply less fertilizer than normal
- ✓ Ensure paddy flooded to reduce water stress

Weather Forecast

Blast forecast for next 7 days

SPMP

High risk of rice blast

Weekly IPM tactics

- ✓ Increase rice paddy monitoring
- ✓ Prepare agro-chemical control
- ✓ Apply plant immune booster

Nowcast

Hourly forecast

SPMP

Good day to spray

Daily IPM tactics

- ✓ Paddy surveillance
- ✓ Spray chemicals

Ready

Set

Go

Risk

Rice blast