



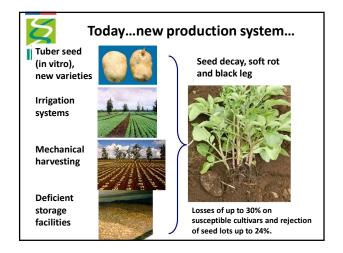
Seed decay, Soft rot and Black leg in Chile

 A survey done by INIA shows that 13.5% and 64.8% of the strains causing the disease are P. atrosepticum and P.c. carotovorum, respectively.



- Also, three seasons ago, one isolate was described as P.c. brasiliense.
- SAG also is performing a survey in 100 fields every year in the southern part of the country as a vigilance and phytosanitary control. They described mainly P. carotovorum on progeny tubers from black leg plants.

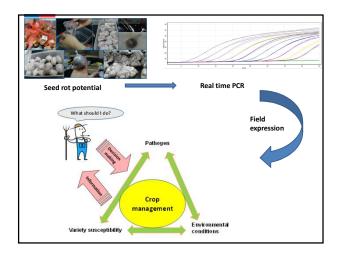


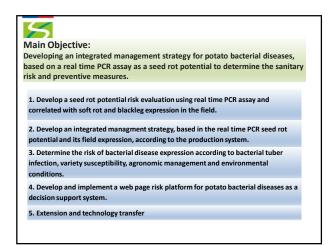


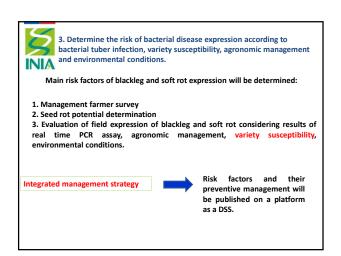


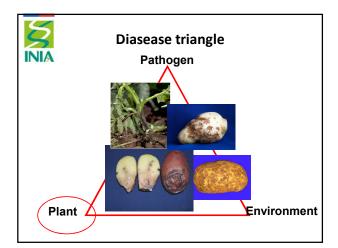
Actual situation

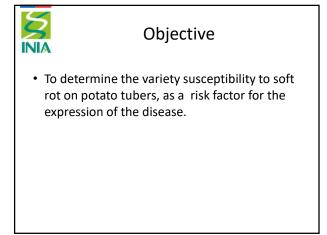
- In addition, SAG in 2015, reported *Dickeya* spp. in potato crops in the VI Region and Metropolitan Regions. They described *D. dadantii*, *D. solani* and *D. dianthicola*. The fields are under official control and quarantine resolution (SAG, 2016).
- These results indicate that new bacteria are associated with potato causing black leg and soft rot, therefore, new studies need to be performed to have conclusive results.
- A proposal was granted by the Foundation for Agricultural Innovation of Chile (FIA).

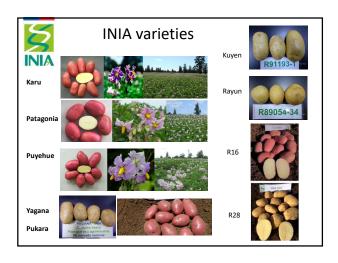


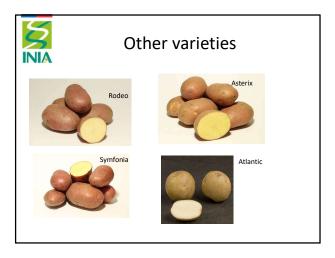


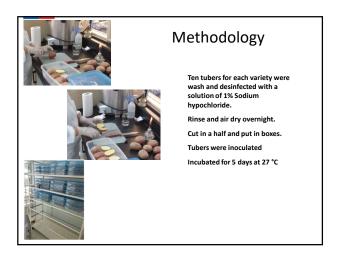


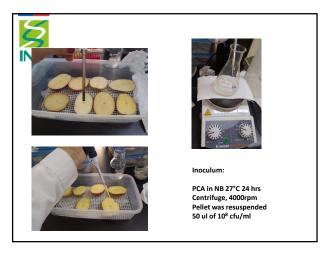


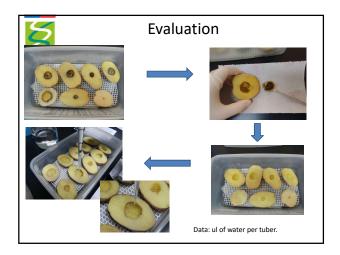




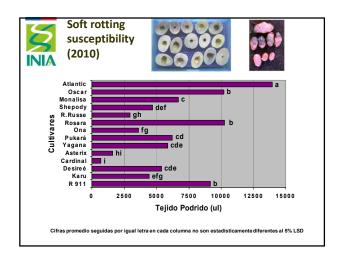


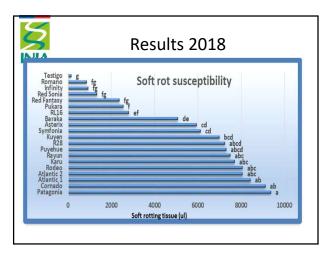


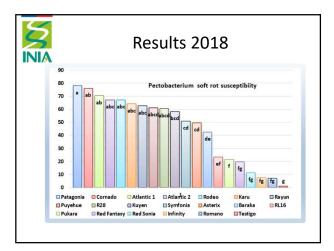


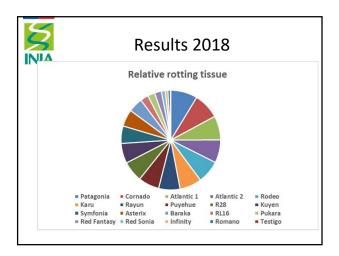














Comments

- Patagonia was de most susceptible variety to soft rot, follow by Atlantic and Cornado.
- The most resistant varieties were Romano, Infinity, and Red Sonia.
- This information can be used to take decision management for soft rot disease.
- Next: Evaluation for blackleg resistance
- Next: Evaluation with other bacterium species.
- Next: Multifactor evaluation.



Participants

- INIA Chile SAG Chile
- Chilean Potato Consortium
- · Potato Seed Producer
- Collaborators:

 Chilean Potato Association
 - NDSU
 - Wageningen University
 - The James Hutton Institute
- Project Financie by Agricultural Innovation Agency of Chile FIA

