AgriLemma – Serious game to engage WATERAGRI stakeholders



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Introduction



WATERAGRI water retention and nutrient recovery solutions



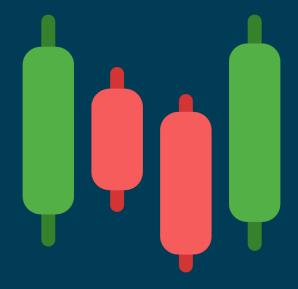


Aim





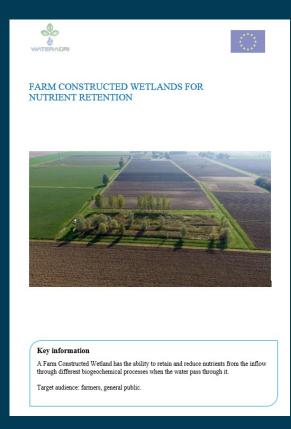
Awareness



Trade-offs

Serious gaming in WATERAGRI









Serious game



AgriLemma



AgriLemma



- European farmers
- Crops: potatoes, sugar beets, rapeseed, maize, wheat, and chickpeas.
- Resources, such as water, nutrients, workers, and seeds.
- Players must run, invest into and improve a farm in 8 seasons
- Balance social, environmental and financial goals.

Game specifications



Target audience: farmers or farm managers, agricultural chambers, farmer associations, water management organizations, media, researchers, policymakers

Players: 4-8

Facilitator: 1

Number of rounds: 8

Time: ~90 minutes

Type: Competitive

Resources and investments







Resources



Water



Nutrients



Technologies



Developments



Workers



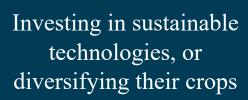
Crops

Objective



Environmental





Social



Livelihood generation

Financial



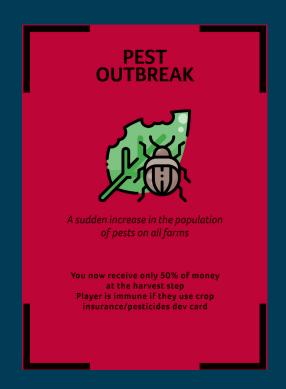
Profit generation
Monetization of
resources at the end of
the game

Uncertainties









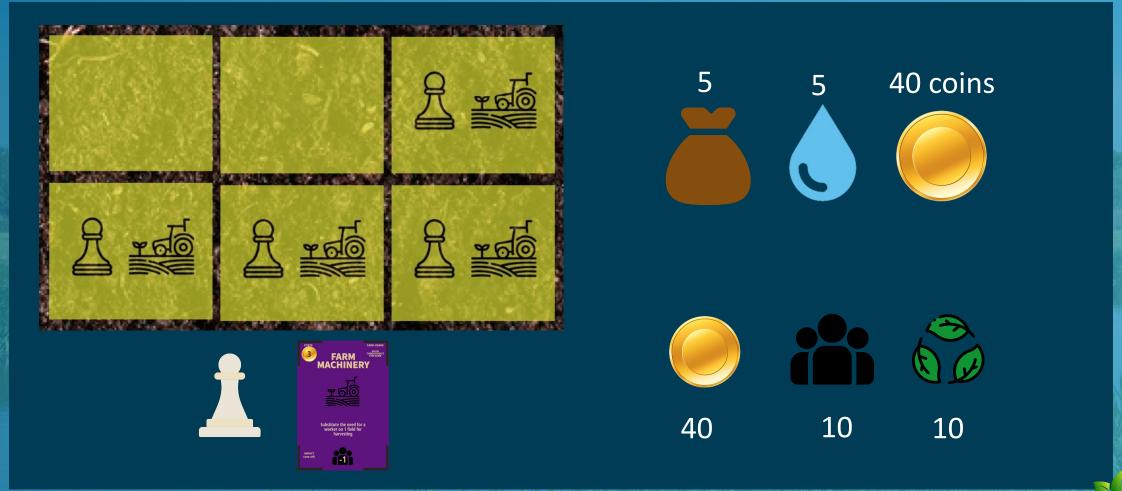
Events



Technology dice

Starting conditions





Game board







Game rounds



Invest

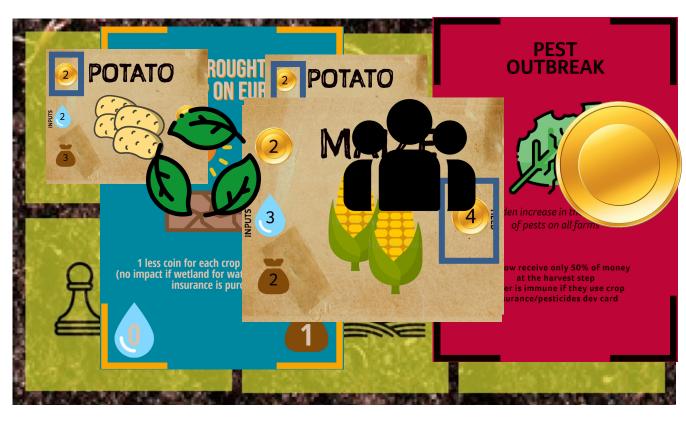
Uncertainties

Cultivate & Trade

Harvest

Payments & Scoring













Other rules





Players can trade resources with each other. Players can trade resources for resources or resources for money. They can negotiate the terms of selling and buying.



If players run out of money, they can take a one-time loan of 5 coins from the bank. At the end of the game, players must subtract this loan (with an interest of 1 coin) from their financial points.

Scoring



Environmental points + Social points + Profit







Monetizing resources at the end of the game

- 1 Water = 0.25 coins
- 1 Nutrient = 0.25 coins
- Any technology = 1 coin
- Any development card = 1 coin
- 1 worker = 1 coin

Game session



Briefing

*pre-game survey
*introduction

*assuming player roles

Game play

8 rounds



Win/lose



Debriefing

*post-game survey

Permission for clicking pictures?





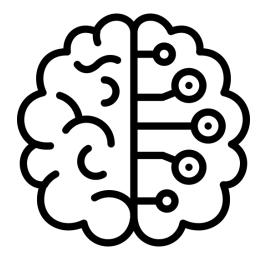


Post-game discussion



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Plenary questions



What did you learn?
What strategy did you follow?



How realistic is the game?

Does it represent the complexities of farming?



Did you miss something in the game? What needs improvement?





THANK YOU!

Questions about AgriLemma? A.mittal@tudelf.nl

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