

The nuclear industry reaching out to the i-Generation

ETRAP conference 2021









The nuclear industry reaching out to the i-Generation

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1. Background

- Why
- How

2. Radiomon concept

What

4. Roadmap

- Development
- Budget
- Organisation

5. After Radiomon

Concept flexibility and expansion

3. Challenges











What am I going to be when I grow up?



And where is nuclear?





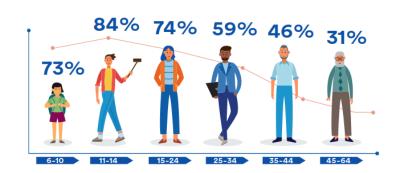
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Videogame market size



SHARE OF VIDEO GAME PLAYERS AMONG THE WHOLE POPULATION IN KEY
EUROPEAN MARKETS BY AGE GROUP

 $0 \oplus \oplus 0$





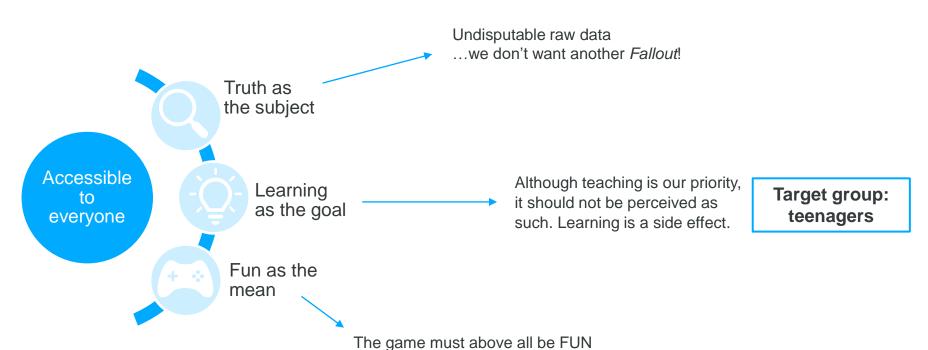








The idea



Attractive arts to give a face to the radionuclides

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Radiomon concept





Pokémon: the proof that humans are collectors

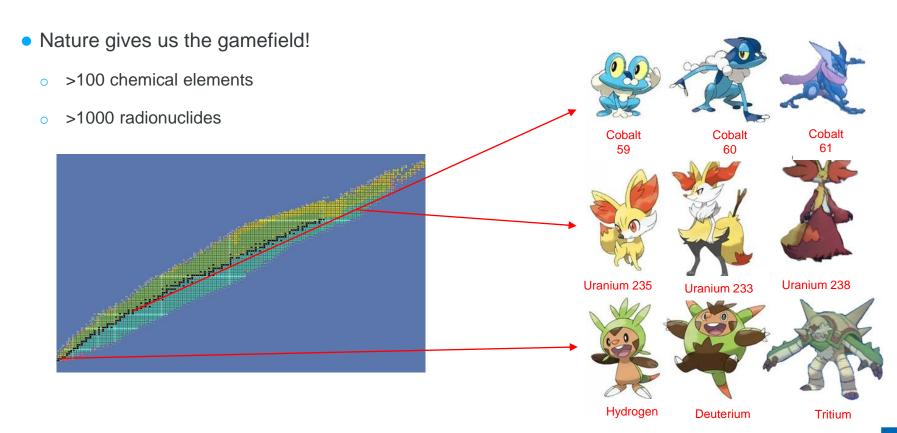








Radiomon: a fun game to collect knowledge







Truth as the subject

- Nuclear properties
 - State: stable or unstable
 - Neutron capture and fission cross-section,
 - Decay properties: time, type, energy



Beryllium-10

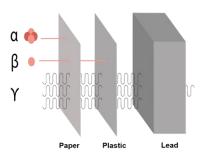
Beta decay

0,2 MeV

1M Years

XS - 0.001 barn

Radiation shielding



Collection of Radiomons from real-life objects or technologies



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Fun as the mean

- Lots of elements that behave differently to collect!
- Activation of the Radiomons occur by neutron capture that's hitting a target with a ball...
- Battle strategy:
 - choose the best Radiomon to transmute,
 - choose the right shield to place
- **Visuals** skilled game developers are needed!
 - Cool effects representing decay
- Storytelling and progression mechanisms



Challenges







Main challenges for *Radiomon*

Market competition:

- Implementation in a freemium app but most of them are!
 - Many developers the best are difficult to reach
- High quality edutainment product

Reality simplifications:

Necessary for playability reasons – educational material to compensate

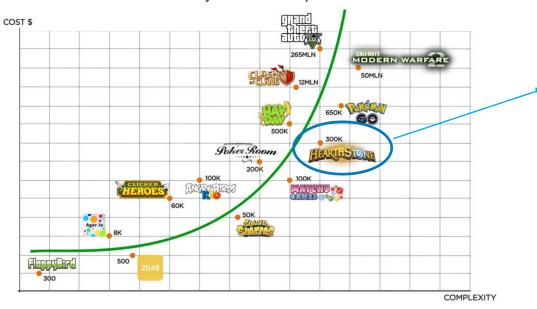
Investments:

- Estimated budget for a prototype is around 15k€, while the cost before launch will rise up to 300k€
- Updates needed to increase shelf-life (estimated otherwise below 1 year)

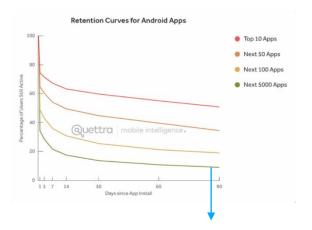


Development cost

300 k€ was estimated by few developers



10M+ downloads on Play store 100M+ players community



Detailed business case after discussion with developers

10% are susceptible to make in-app purchases



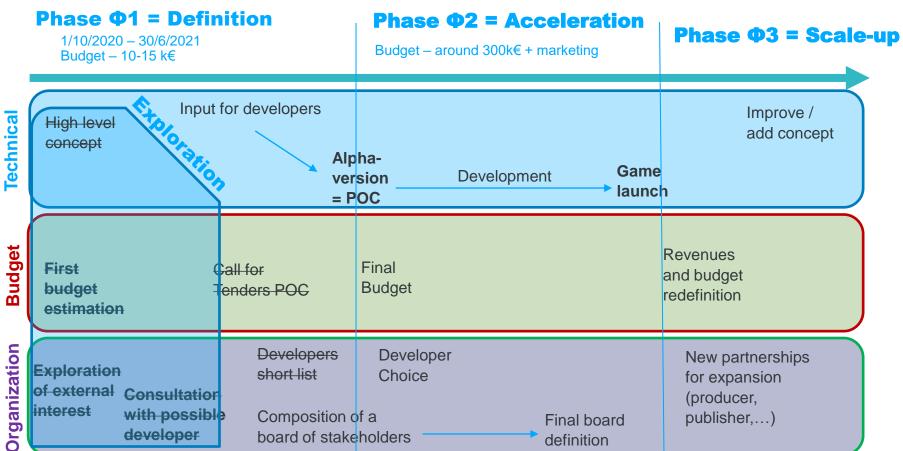
Roadmap



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Roadmap





After Radiomon



Flexible concept



New features / new concepts

Capitalize on the franchise to increase visibility

Inclusion in other succesful franchises

Experience for gamification



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