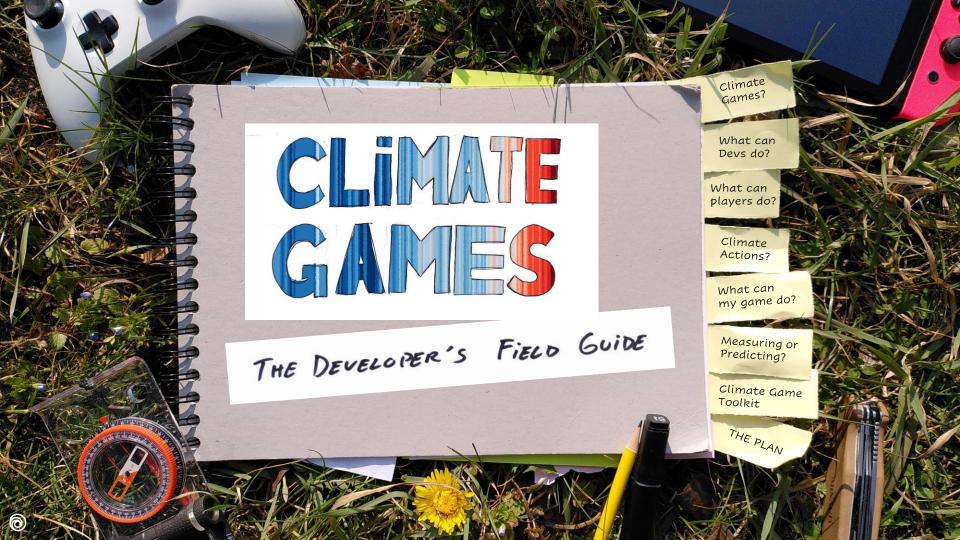
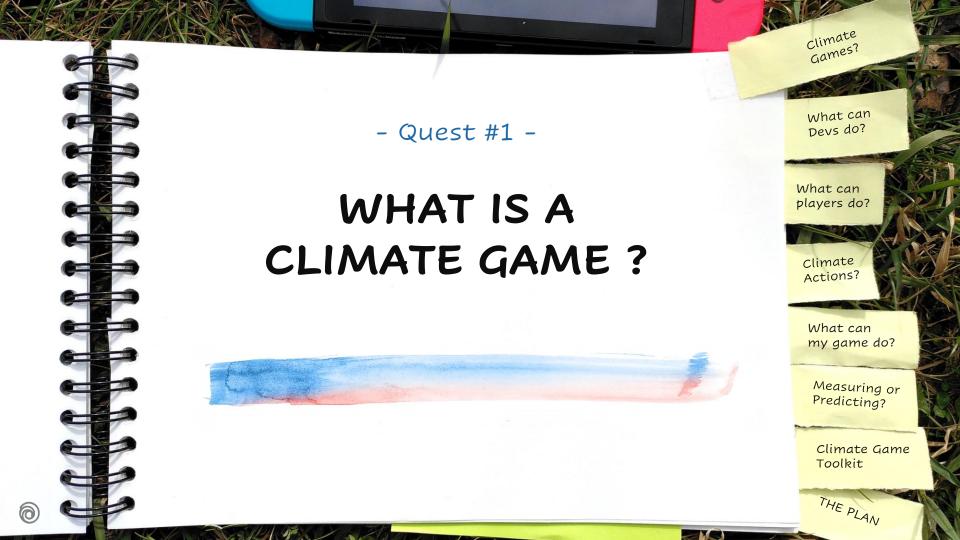


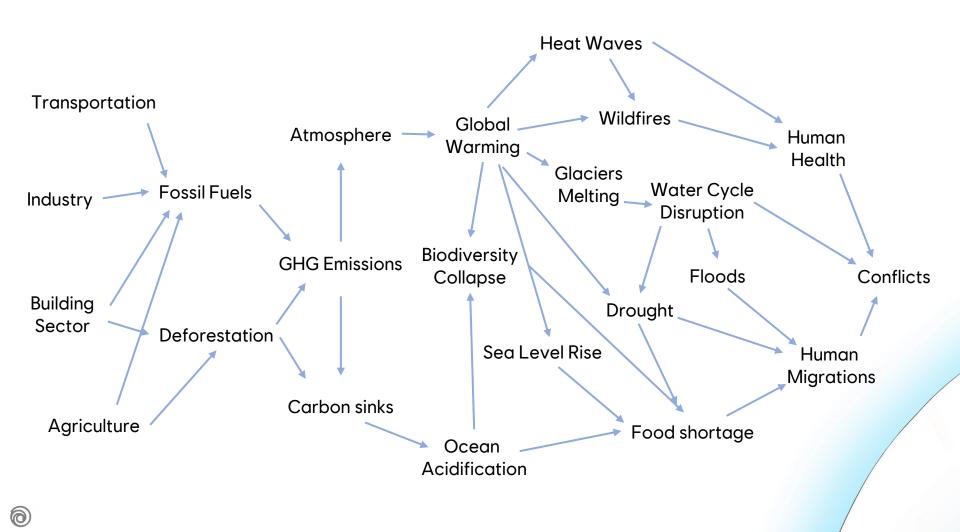
CLIMATE GAMES: THE DEVELOPER'S FIELD GUIDE

ARNAUD FAYOLLE









SUSTAINABLE GALS DEVELOPMENT





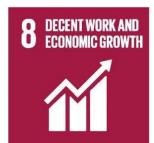


































- Quest #2 -

WHAT CAN GAME DEVS DO TO TACKLE THE CLIMATE CRISIS?

What can Devs do?

What can players do?

Climate Actions?

What can my game do?

Measuring or Predicting?

Climate Game Toolkit

THE PLAN







PANGRES

REDUCE FOOTPRINT

DECARBONIZATION & CLIMATE CONTRIBUTION



INCREASE BRAINPRINT

RAISE AWARENESS & ACTIVATE TOWARDS ACTION

DECARBONIZATION PLAN







R&D IN ECO-DESIGN







GREEN GAME JAM





Ubisoft 2021 carbon footprint

148 kilotons of CO2 ea

the total carbon footprint for Ubisoft in 2021, which equates to 7.2t CO2 eq. per team member

Our commitment for 2024

our reduction target per employee based on 2019 levels (which were of 9.5 tCO2e per employee).



Reporting of our emissions is based on guidance from the Greenhouse Gas (GHG) Protocol, with a market-based method. This reporting is certified by an external auditor and declared to the French Agency for Ecological Transition (ADEME) and to the Carbon Disclosure Project (CDP).

OUR ACTION PLAN

Reducing our environmental impact is a huge and complex challenge that requires collective thinking. So at Ubisoft, we've put together a global action plan drawing on expertise across a broad spectrum of specialties.



Business trips

New travel policy and development of remote collaborative working solutions



Workspaces

Optimizing on-site power consumption, ensuring environmentally sustainable teleworking



Data centers

Acquiring repurposed servers, using more recycled heat, reducing data retention times



Energy

Target: 100% electricity from renewable sources



Human resources

Team member awareness information. training and onboarding



Waste management

Target: zero single-use plastic, overall reduction in all types of waste. optimized recycling



IT Equipment

Extending hardware life cycles, systematic hardware reuse and recycling, more energy-efficient workstations



Purchases

A responsible purchasing policy binding on our suppliers



Production

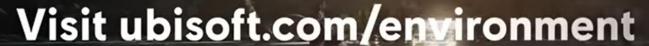
Digitalization of games



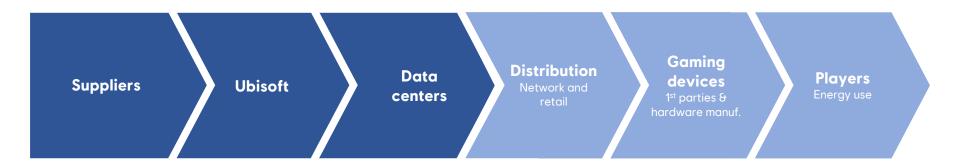
Games content

commitment to environmental protection

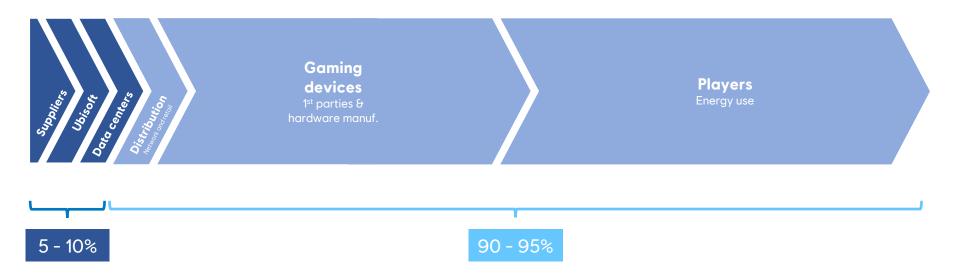
Using games to encourage a positive

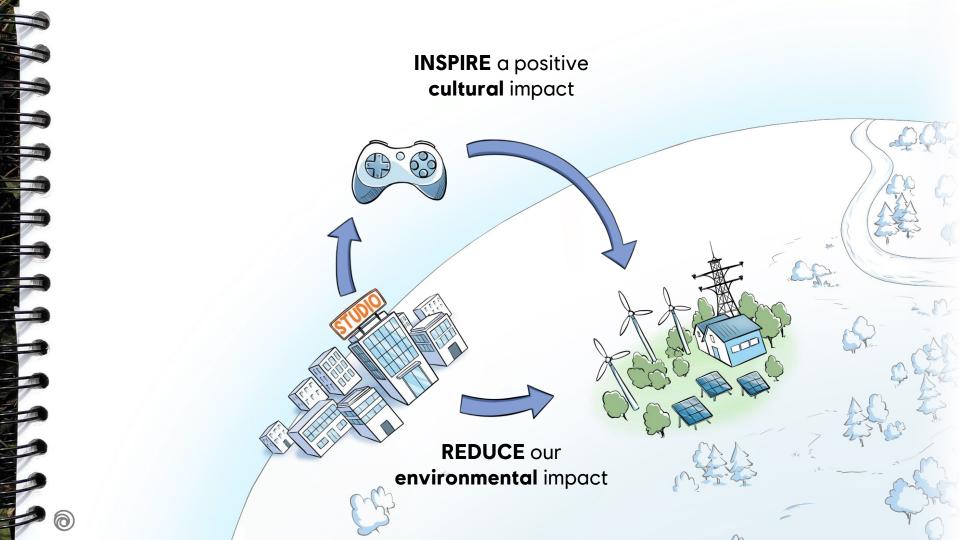


LIFECYCLE ANALYSIS



LIFECYCLE ANALYSIS





WHAT IS A CLIMATE GAME?

A game that can fix climate ???

A game with a sustainable environmental footprint

that nudge players to act for climate



GAMING & CULTUR

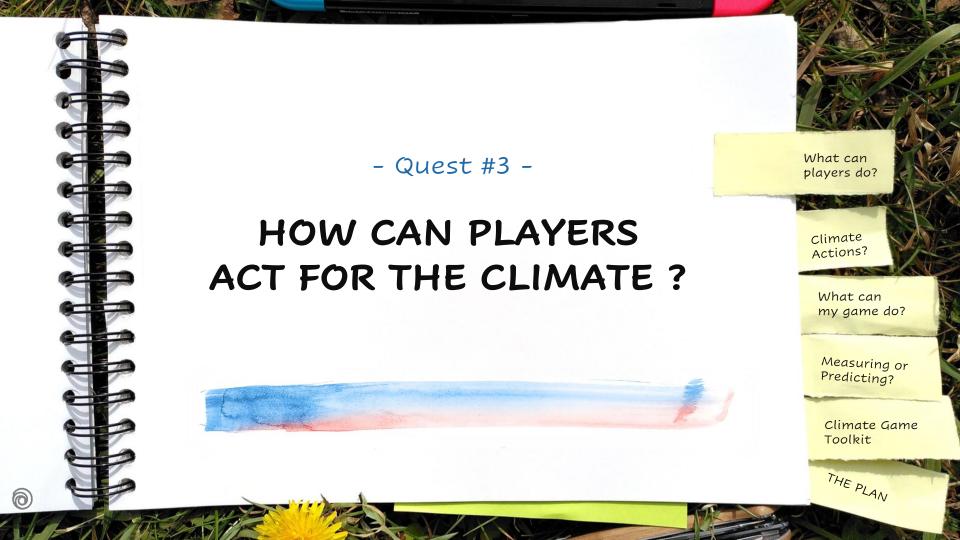
WHO YOU CALLING ECO-TERRORIST? -

How Final Fantasy VII radicalized a generation of climate warriors

From activists to families, FFVII's cautionary, planetary tale still resonates.











- Quest #4 -

WHAT ACTION SHOULD WE INSPIRE PLAYERS TO TAKE IN THE REAL WORLD?



What can my game do?

Measuring or Predicting?

Climate Game Toolkit

THE PLAN

LIVE SUSTAINABLY

Build resilient communities

Live off the land

Reduce your carbon footprint

Buy local products

Save water

Go Zero Waste

Ride a bicycle

Recycle your waste

Become autonomous

Grow your own food

Stop flying planes

Repair & craft

Promote biodiversity

Reconnect with Nature

Eat less meat



TRANSFORM THE SYSTEM mate Change

Implement Circular Economy

Design walkable cities

Generalize public transports

Transition to renewable energies

Challenge policy makers

Rethink our KPIs

Share climate science

Vote for green governments

Invest in ecosystem restoration

Develop sustainable solutions

Reform agriculture methods

Reduce energy usage

Calculate & reduce corporations' carbon footprint

Assemble green committees

"Vote with our money"



RESIST AGAINST PLANET DESTRUCTION

Disable harmful installations

Organize strikes

Join marches & protests

Protect whistle-blowers & journalists

Debunk greenwashing

Sign petitions

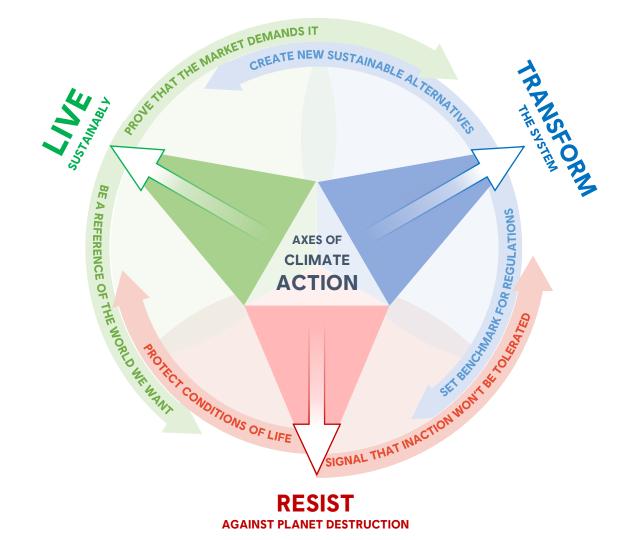
Occupy strategic infrastructure

Sue big polluters

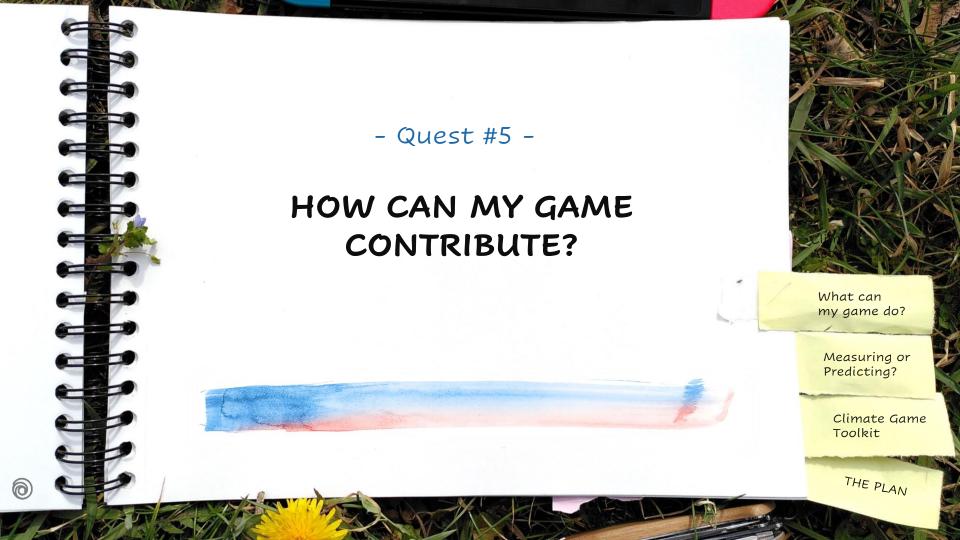
Expose harmful practices

Fund social-justice orgs

Boycott harmful brands

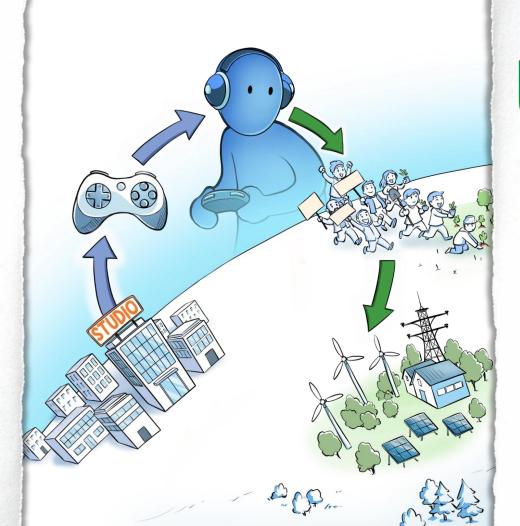






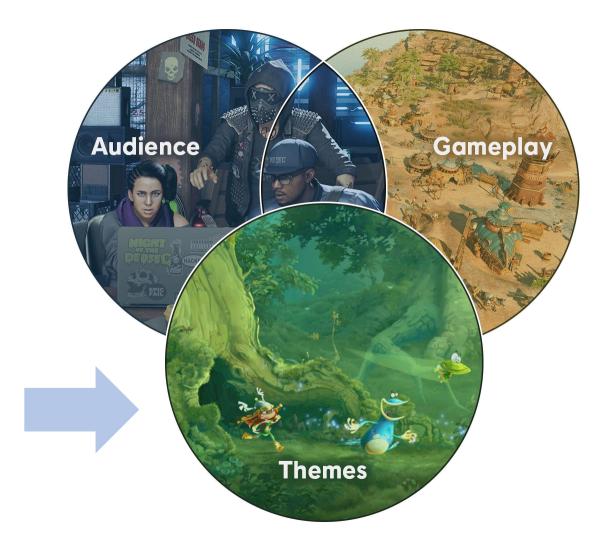
USP

Unique Selling Point



UIP

Unique Impact Potential





SUSTAINABLE GOALS





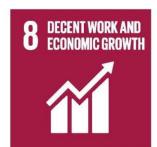
































SUSTAINABLE G ALS

1 NO POVERTY











7 AFFORDABLE AND CLEAN ENERGY















DEVELOPMENT GALS



























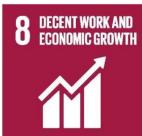




















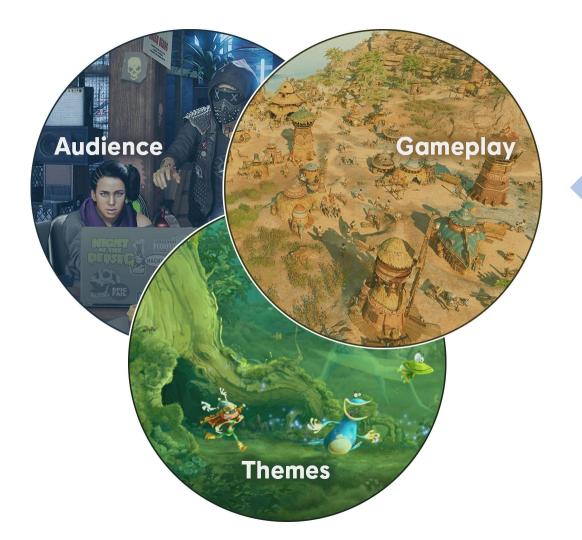
















TRANSFORM

THE SYSTEM

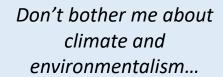


RESIST

AGAINST PLANET DESTRUCTION







I know it's important but I'm not sure I can help at all!

I'm doing my part! Let's save this planet!





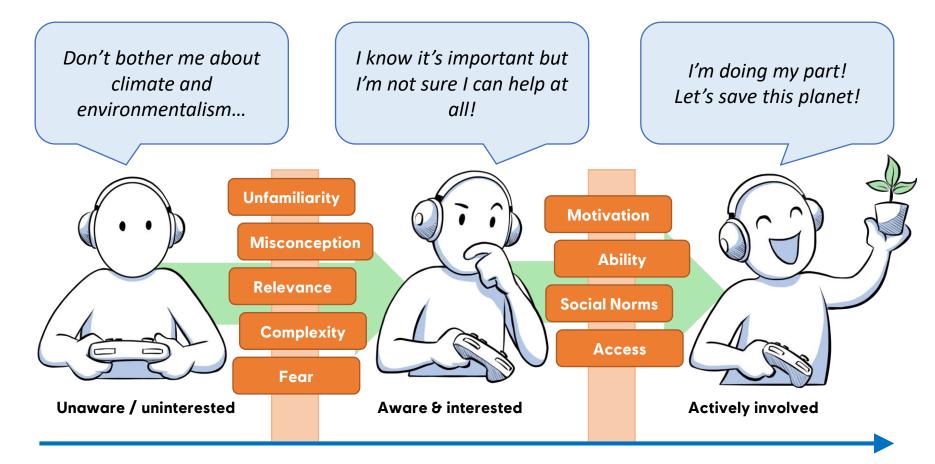


Aware & interested

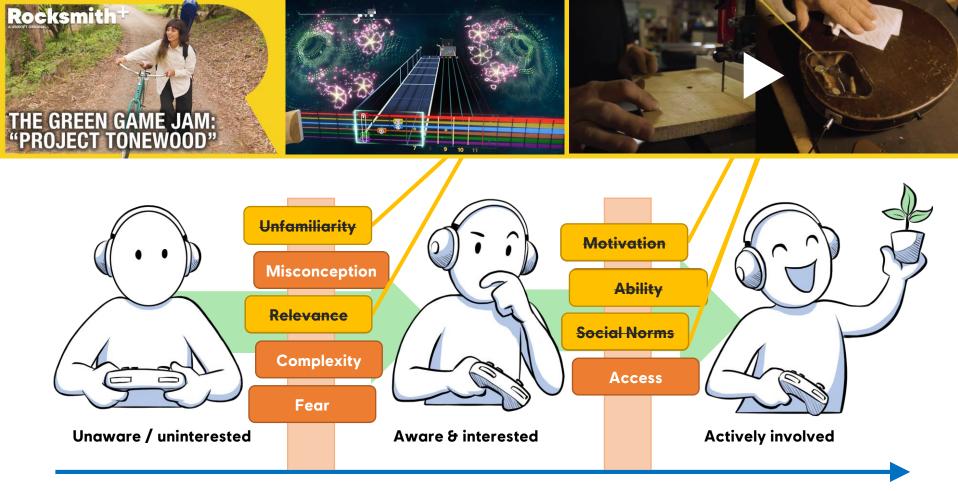


Actively involved

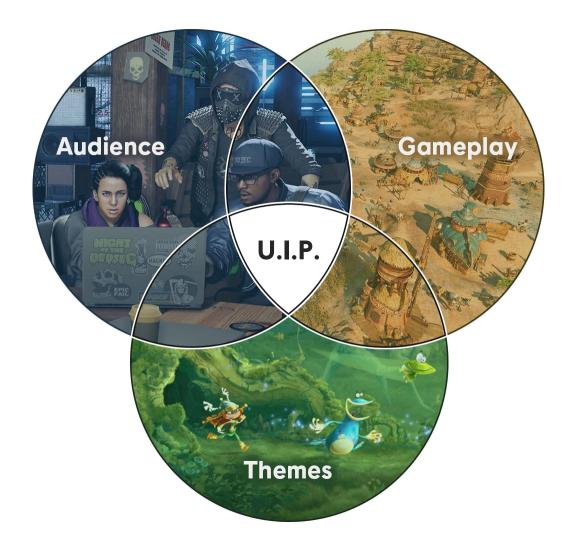
Player's personal pro-environmental journey



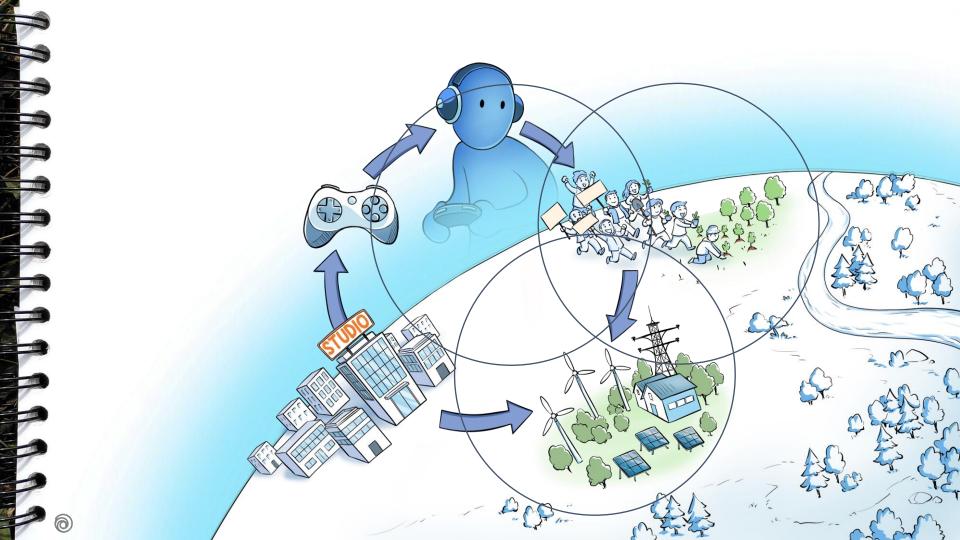
Player's personal pro-environmental journey

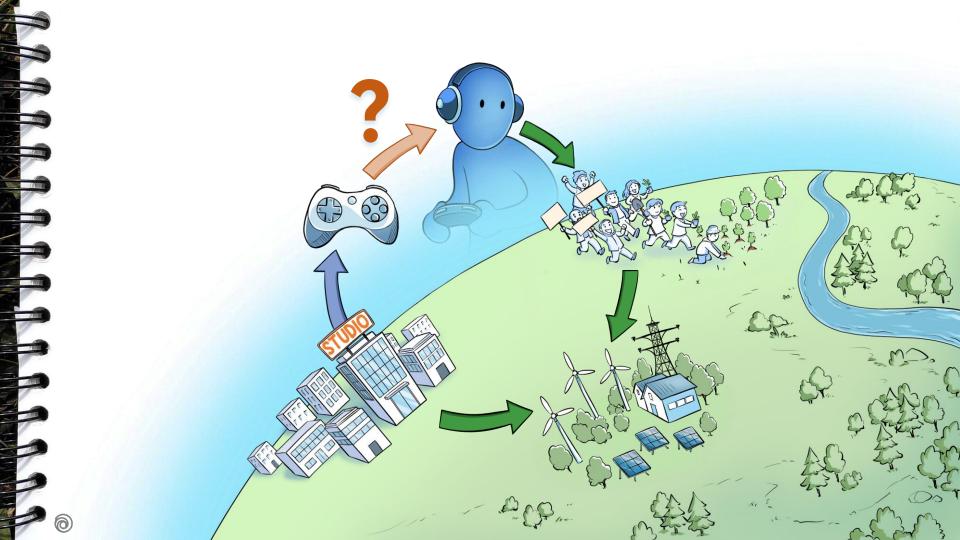


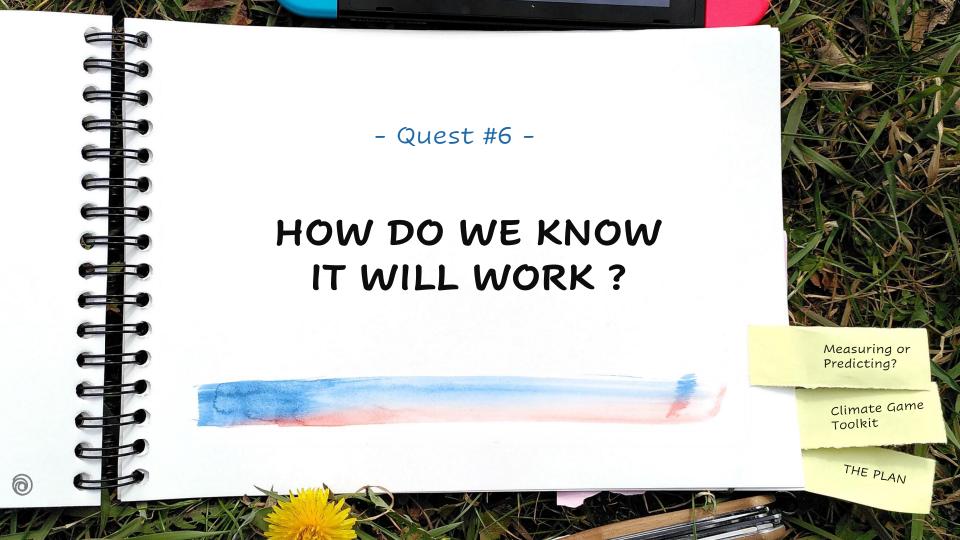
Player's personal pro-environmental journey



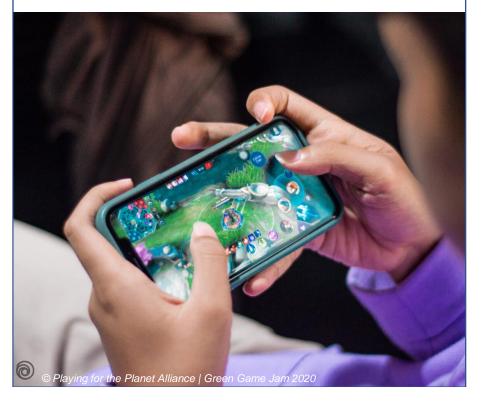






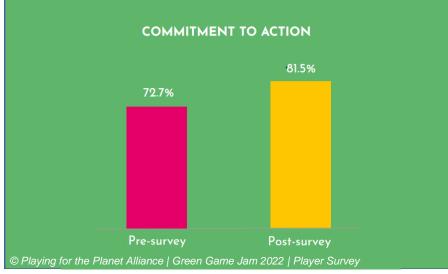


IN-GAME METRICS COLLECTION



PRE/POST GAME SURVEYS

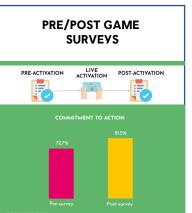




PRO-ENVIRONMENTAL INTENTIONS

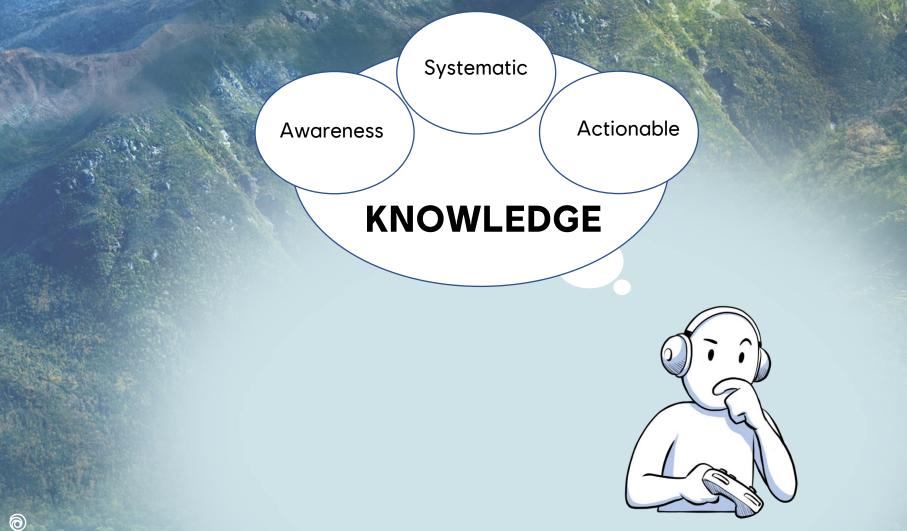
BEHAVIORS

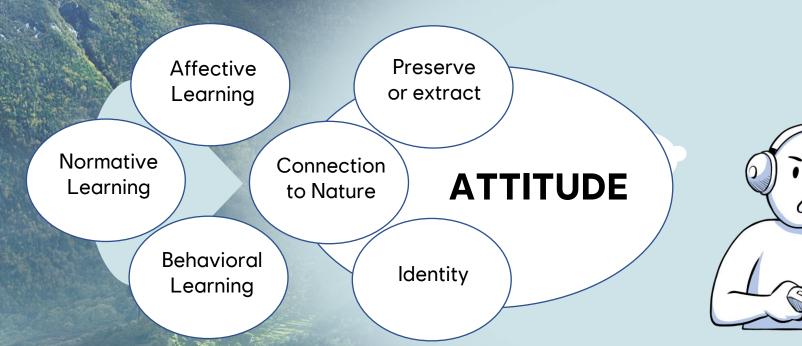






PRO-ENVIRONMENTAL









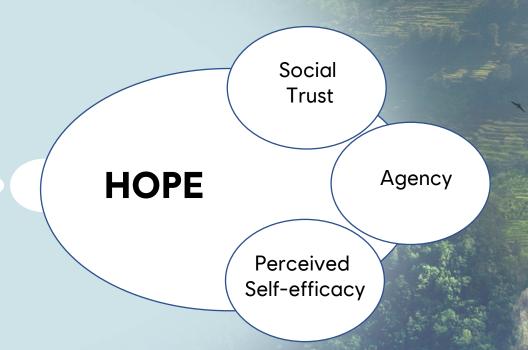
PERCEIVED SELF-EFFICACY

Visible effects

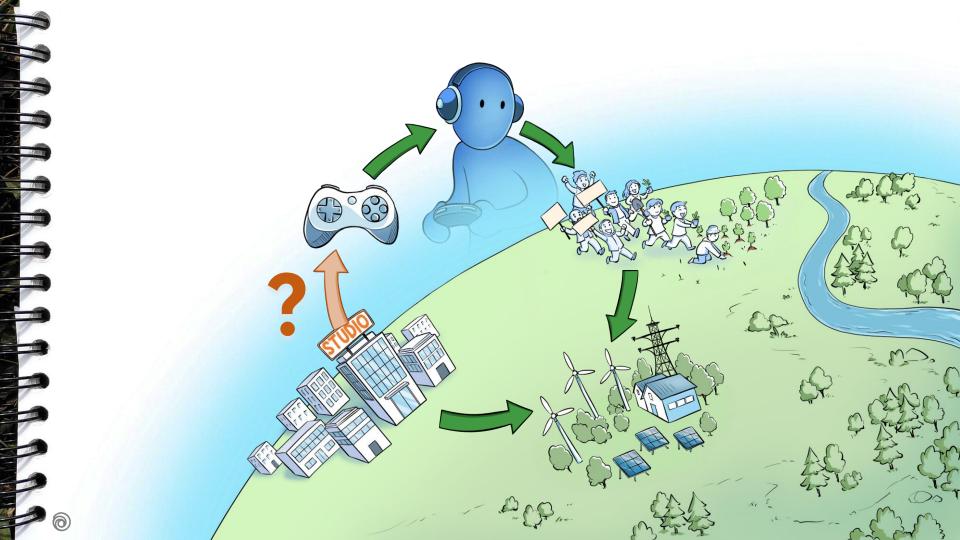
Scaffolding & spillover

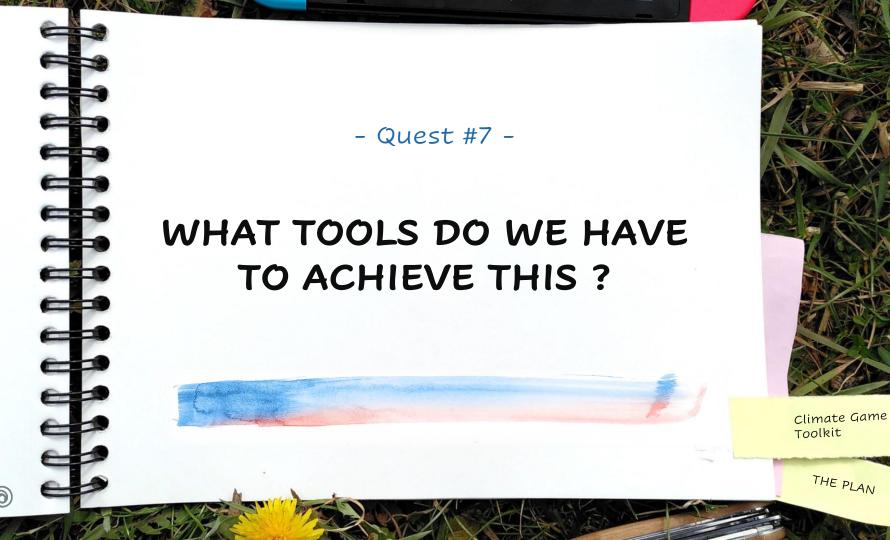
Community

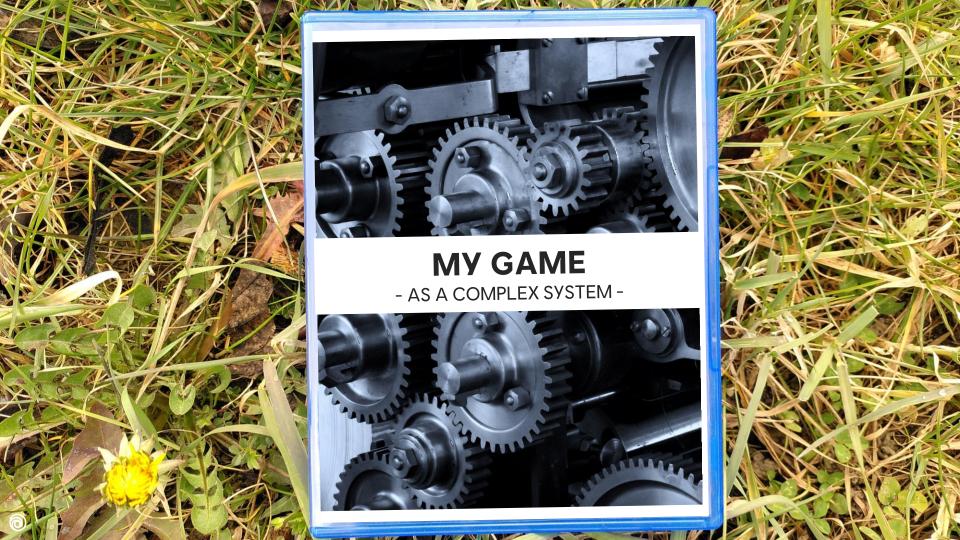












HE SETTINGS MENU ON YOUR PLAYSTATION #4

system (PS4™) and conforms to PS4™ specifications of ensure correct usage and storage of this game disc.

r breaks, 15 minutes every hour. Discontinue playing ne individuals are sensitive to flashing or flickering ptic condition and may experience epileptic seizures before playing videogames if you have an epileptic ng symptoms whilst playing: altered vision, muscle and/or convulsions.

(such as eye strain, eye fatigue or nausea) while televisions. If you experience such discomfort you imfort subsides. Generally we recommend that you is during each hour of play. However, when playing of necessary breaks may vary from person to person-omfort to subside. If symptoms persist, consult your is old) is still under development. We recommend go young children to watch 3D video images or play are they follow the recommendations listed above.

ess, nausea, disorientation, blurred vision or other toms are experienced, stop using immediately and

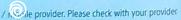
tware licence. The PS4[™] and the PS4[™] game discs thorised reproduction of the copyright works present arks or the unauthorised reproduction of copyright of by law. If you have any information about pirate tres please email anti-piracy@eu.playstation.com

ct everyone to play fair online but if you experience ne in-game grief reporting tools or let us know at

age for which this game disc is appropriate. Set the withat age. For information on age ratings and how r PS4¹⁸ or visit playstation.com/parents

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ur landline / mobile provider. Please check with your











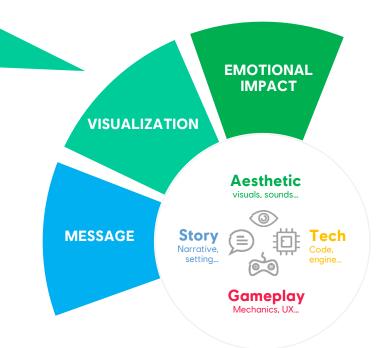














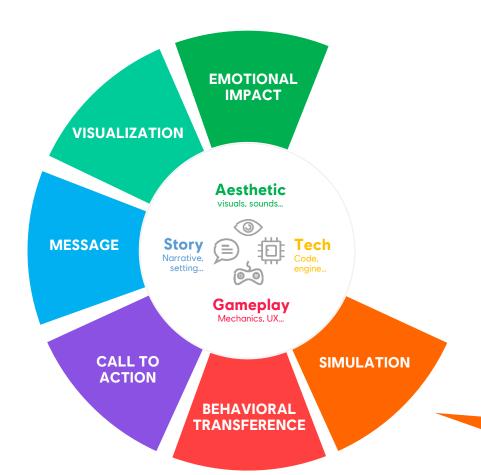












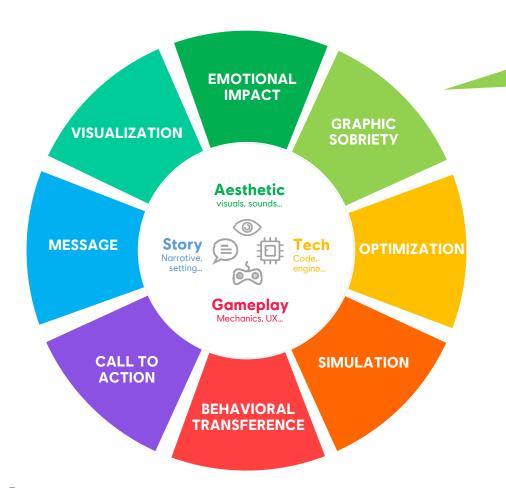












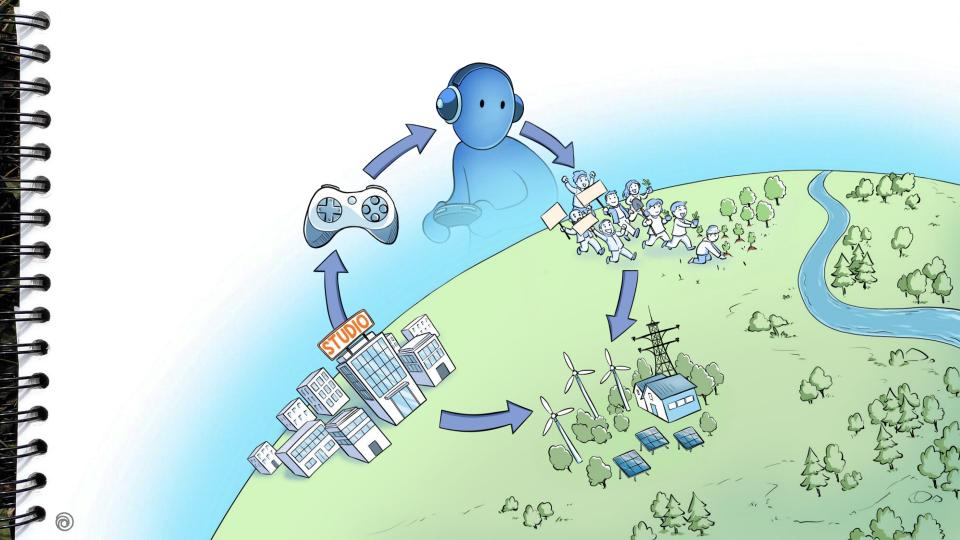


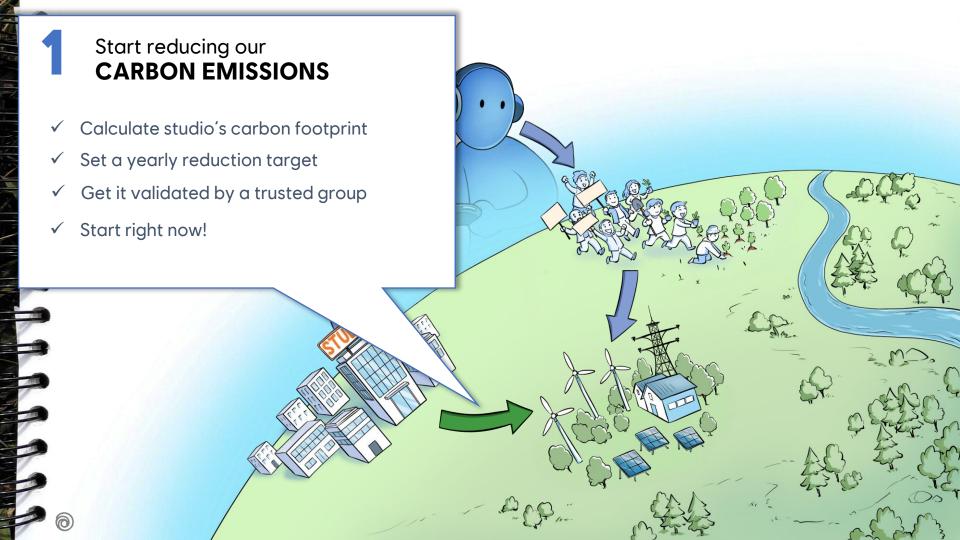












2 Identify our game's UNIQUE IMPACT POTENTIAL

✓ What SDG could your story, world or characters explore?

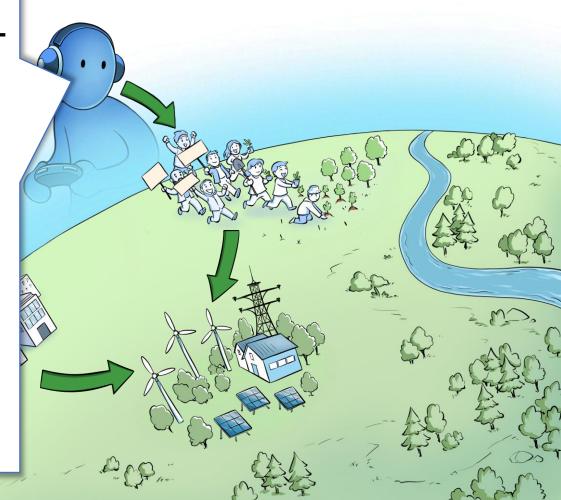


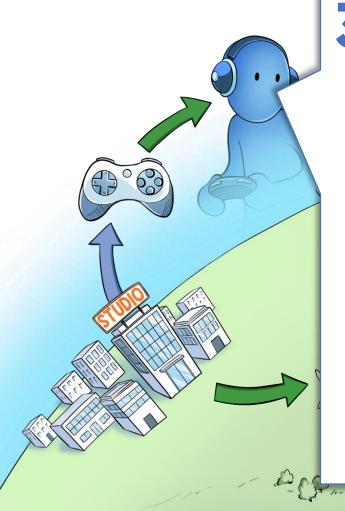
✓ What axes of action can your gameplay promote?



✓ Who is your audience and how much do they know?



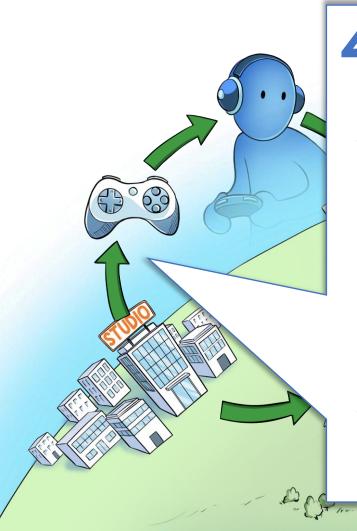




Equip players for POSITIVE IMPACT



- Develop awareness, systemic, and action knowledge
- Use affective, normative and behavioral learning to shift attitude
- ✓ Give a perception of pro-efficacy
- Make players practice experience that fill them with hope

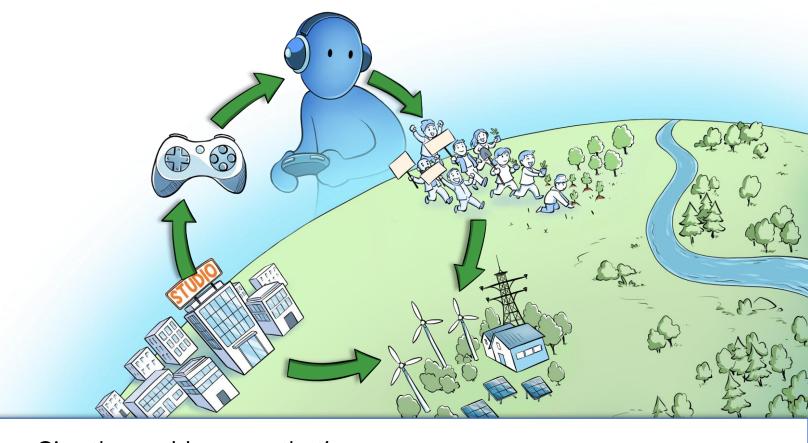


Leverage your GAME FEATURES and TEAM SKILLS

 Embrace the unique advantages that aesthetics, narratives, gameplay and technology can provide



✓ Empower your team to contribute with their own expertise



Give the world a game that's **PART OF THE SOLUTION TO THE CLIMATE CRISIS**

WHAT IS A CLIMATE GAME?

A game that can fix climate ???

A game with a sustainable environmental footprint that nudge players to act for climate?

RELEVANT

to develop, buy and play in the age of the

CLIMATE CRISIS

5 Give





WE'RE HERE TO HELP!



Join like-minded people at https://www.igdaclimatesig.org/





Download and read the Environmental Game Design Playbook

https://www.igdaclimatesig.org/workstream-pages/published-resources

RELATED SESSIONS @ GDC 2023

Teaching Sustainability and Game Design: From the Low-Hanging Fruits to the Root of the Problem

Presented by Patrix Prax, Clayton Whittle, Trevin York, Sonia Fizek

https://schedule.gdconf.com/session/educators-summit-teaching-sustainability-and-game-design-from-the-low-hanging-fruits-to-the-root-of-the-problem/891032

Playing for the Planet Climate Check: 10 Steps to Climate Leadership

Presented by Sam Barratt

https://schedule.gdconf.com/session/playing-for-the-planet-climate-check-10-steps-to-climate-leadership/894994

How Xbox, 343i, Epic and Ubisoft are Reducing Energy & Emissions While Maintaining Gameplay Fidelity (Presented by Microsoft)

Presented by Trista Patterson, Tad Swift, Paula Angela Escuadra, Alex Le Boulicaut, Ben Woodhouse, Iris Gardet https://schedule.gdconf.com/session/how-xbox-343i-epic-and-ubisoft-are-reducing-energy-emissions-while-maintaining-gameplay-fidelity-presented-by-microsoft/894609