

Le Grand Jeu

elegantly simple in its design, remarkably complex in its mechanics

by
Fredd (@freddbomba) & Raffa (@raffaellarovida)

Le Grand Jeu is a future-thinking game
that allows to set a situation
where different conditions are simulated and concepts emerge from doing
where players are peers and all languages intermix
.... and stories emerge

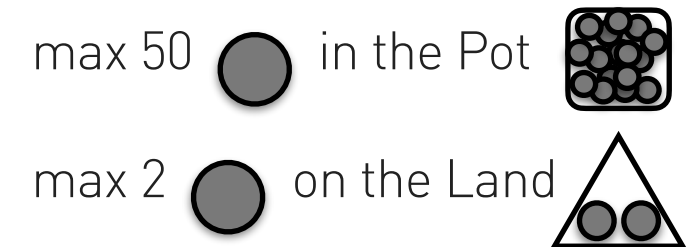
RATIONALE



KEY-LEARNINGS

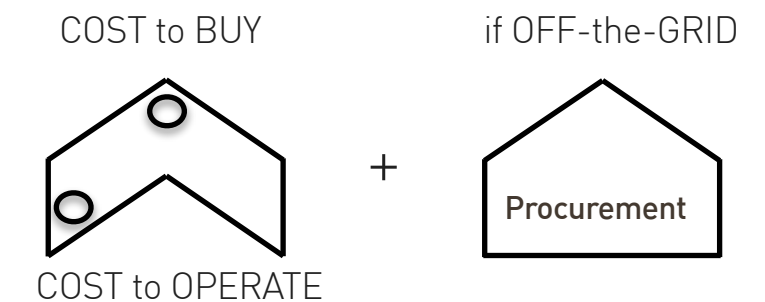
1. Understand the Planet **carrying capacity**

1. Atmosphere capacity
2. Land capacity (wastes & radioactive wastes)



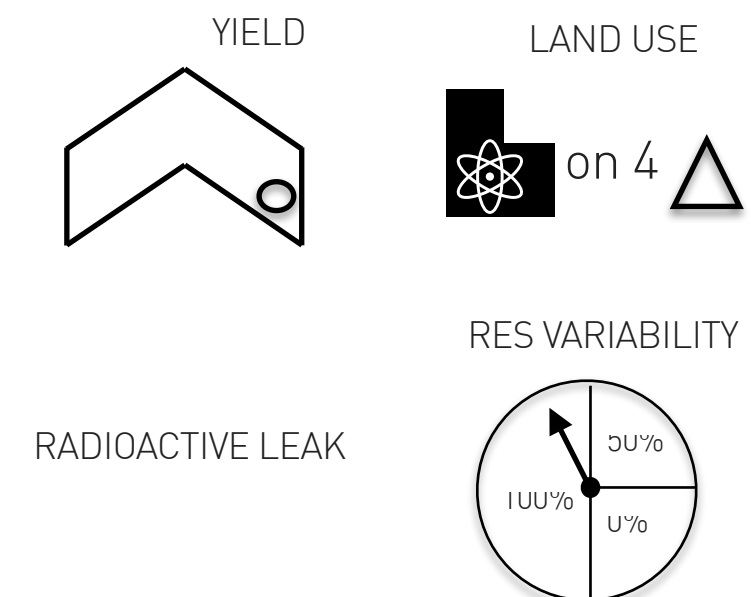
2. Understand the energetic needs, **consumption and lifestyle**

1. Cost of activities
2. Procurement if off-the-grid



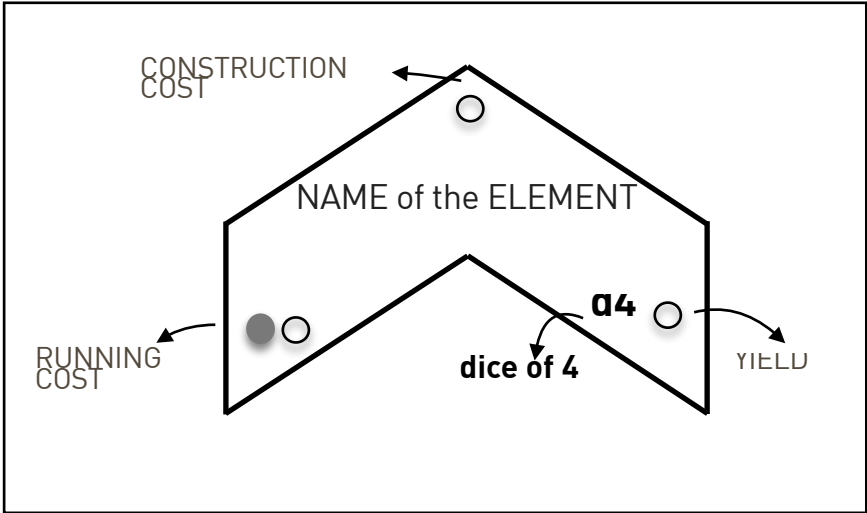
3. Understand the **energetic sources features** (production and distribution)

1. Fossil: energy production, env impacts, grid, events (raw material procurement)
2. RES: energy production, env impacts, grid, events (variability)
3. Fission: energy production, env impacts, grid, events (leaks and accidents)
4. Fusion: energy production, env impacts, grid, events (spinoff)

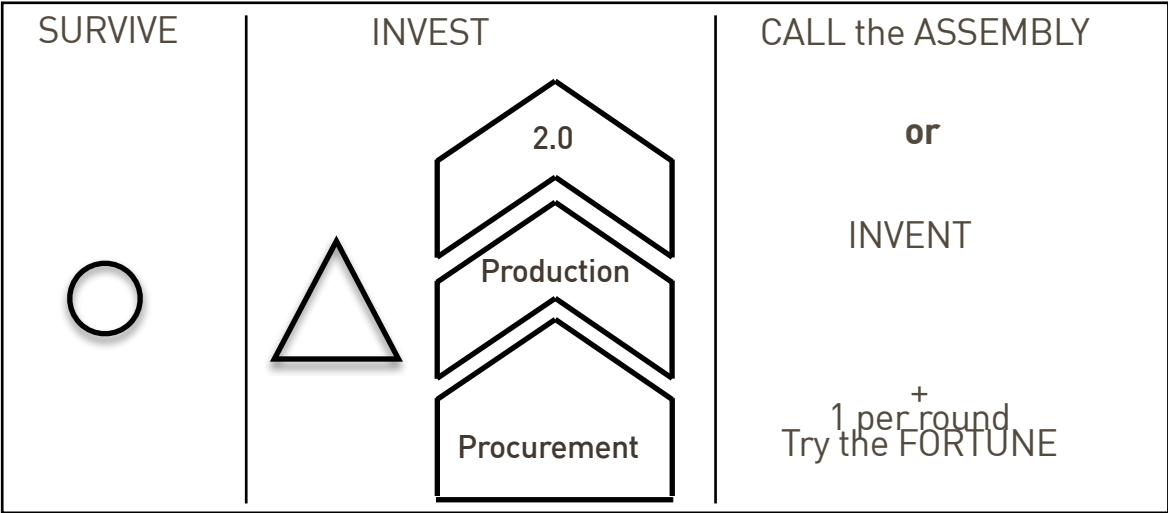


BASIC RULES

THE ELEMENT



THE ACTIONS



If you place your Off the grid you don't pay any to survive

Set up

1d6
3d6
2d6

Death

if are more than 50 in the Pot --> GAME OVER

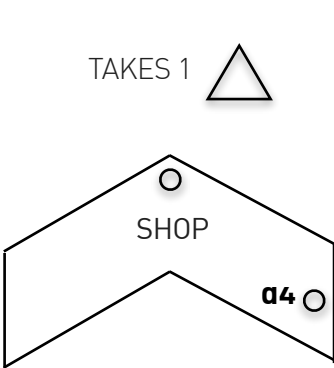
if a player die --> 10 in the Pot

Welfare

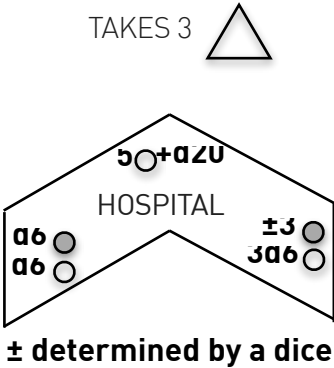
If you don't have any the government gives you 2 for 2 turns and puts 4 in the Pot for 4 turns

INSPIRATION

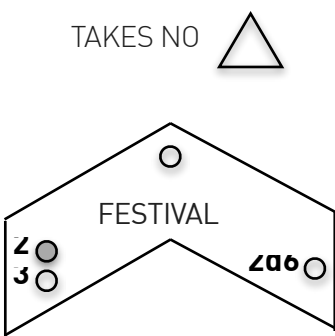
A SHOP



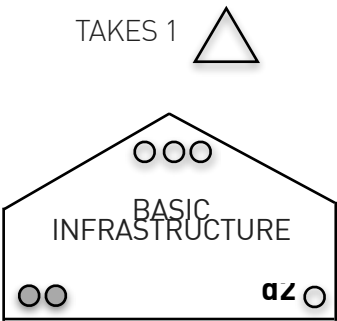
A HOSPITAL



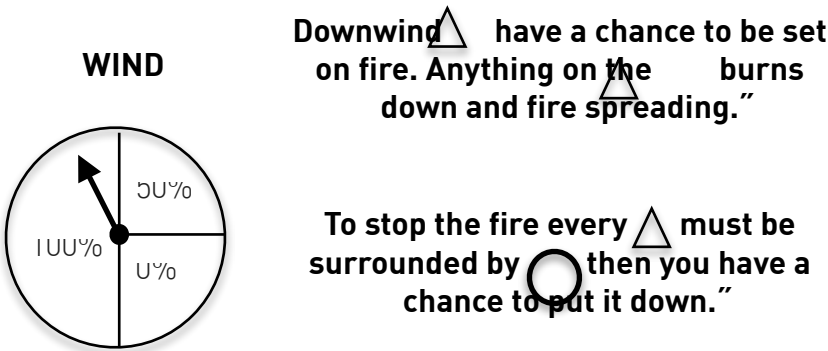
A FESTIVAL



IF OFF-THE-GRID



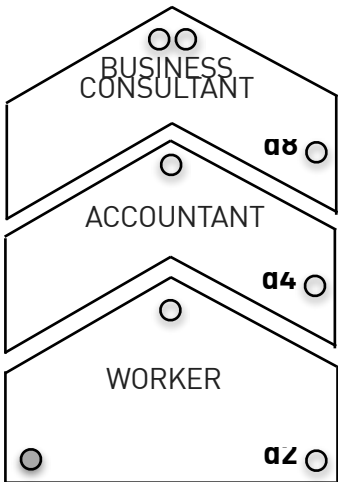
A FIRE



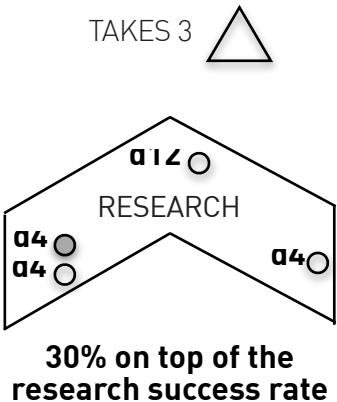
OPEN-SOURCE



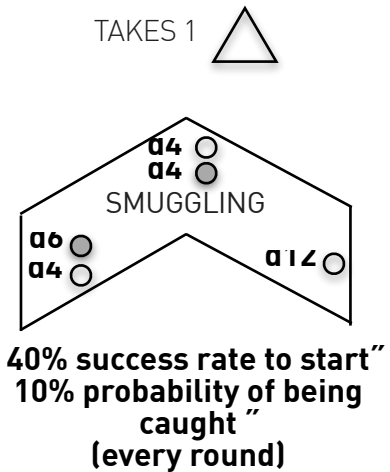
A WORKER



A RESEARCH CENTRE

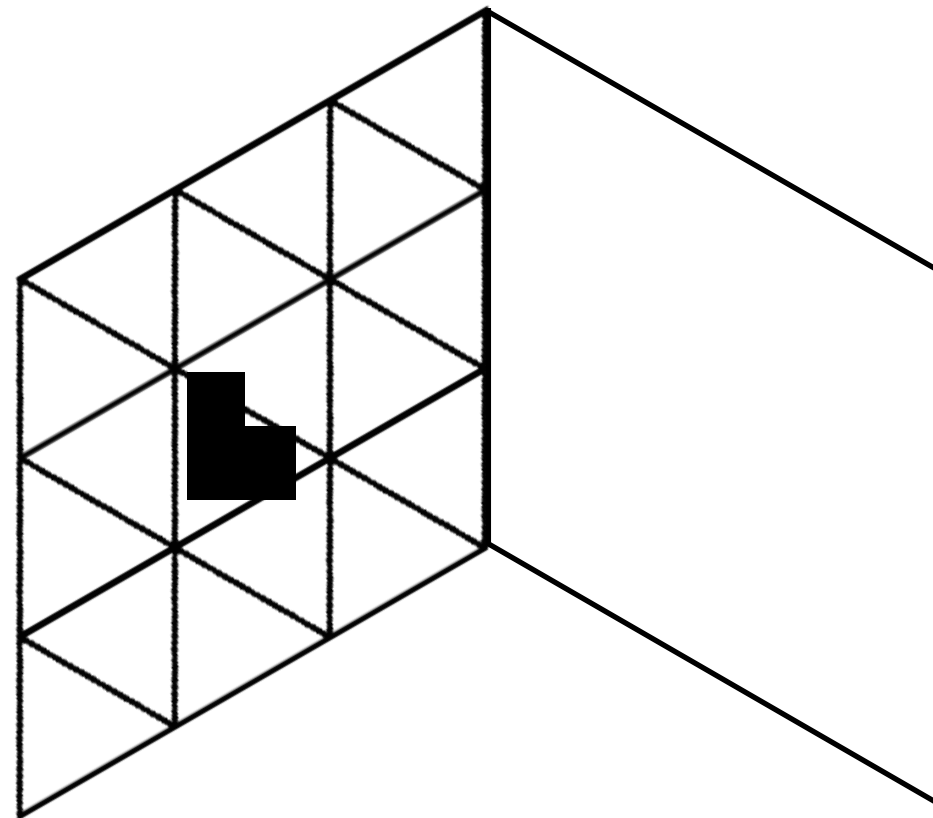


A CRIMINAL ACTIVITY



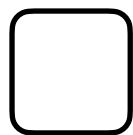
SCENARIO 1

Addiction

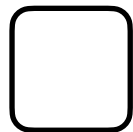


2 Lands

Pot 1



Pot 2



To survive

on the grid



off the grid



collected in Pot 1

Fossil Power Plant



on 4



Every round:



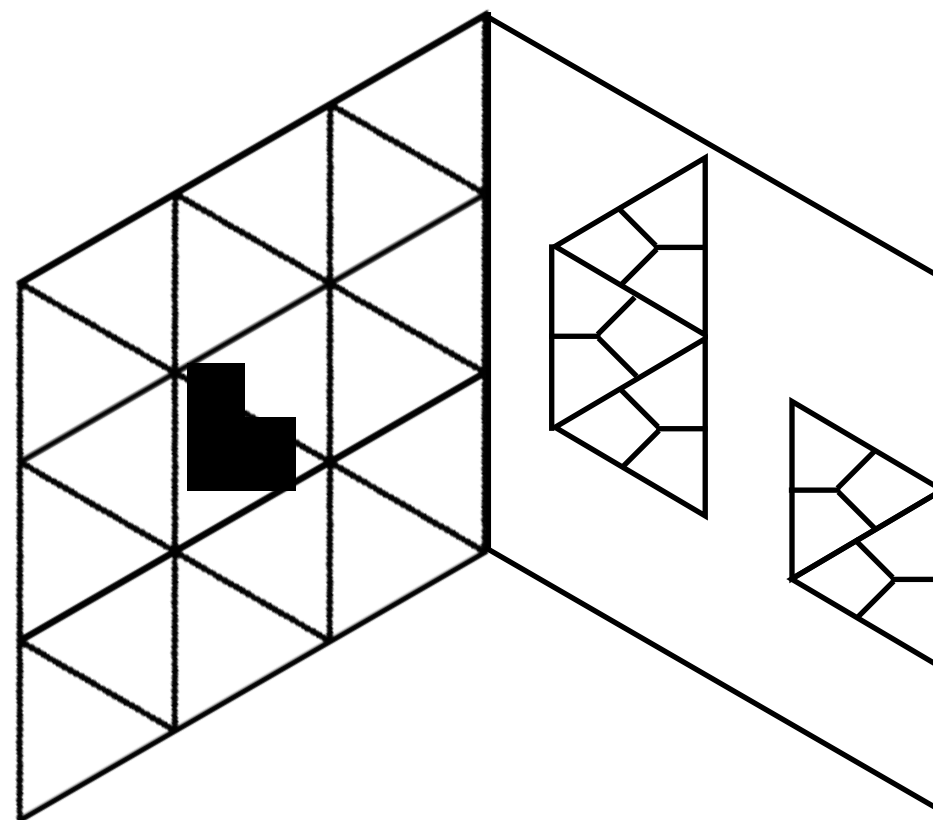
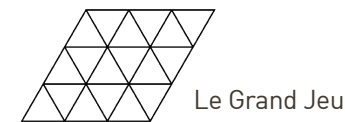
3



5

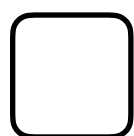
SCENARIO 2

Fossil vs Renewable

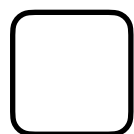


2 Lands

Pot 1



Pot 2



To survive

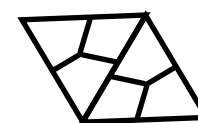
on the grid



on the RES
microgrid



RES Microgrid

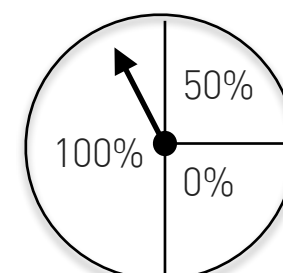


Every round:

2



*



Variability of RES

Fossil Power Plant



on 4



Every round:

3

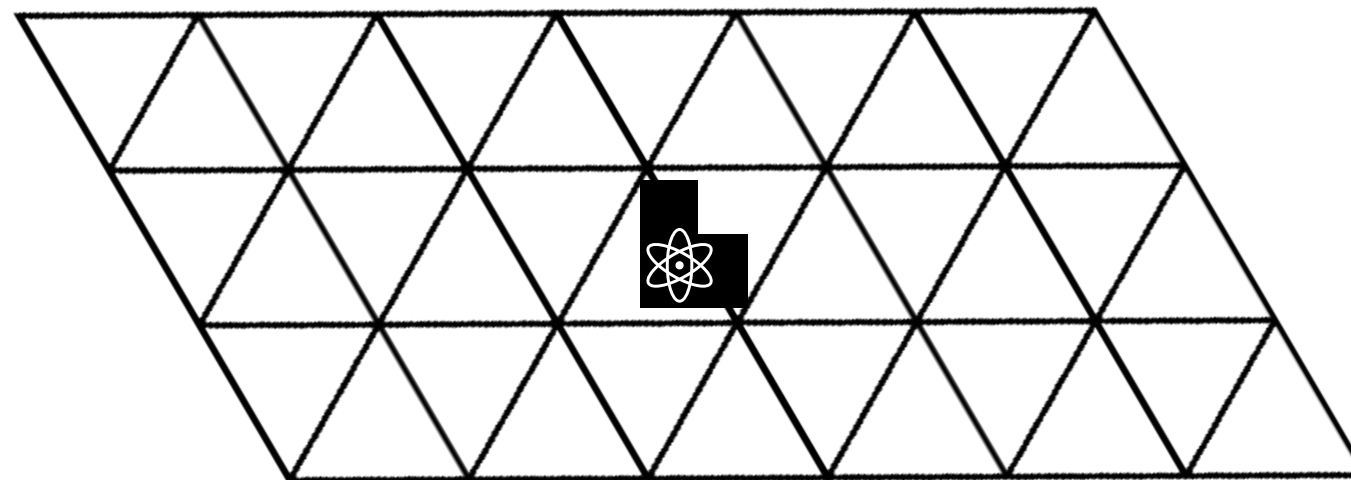


5



SCENARIO 3

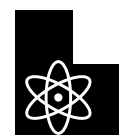
The nuclear scenario



To survive



Fission Power Plant



on 4



Every round:

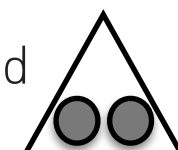
5



2



on 1 land




random

they affect the elements close by

Radioactive leak

Every round with a variable probability

1 d8  each player

1 d12  in the Pot

The Fusion option

After the 2nd round the master announces that Fusion Energy will arrive on the grid in 2 turns + 1d4 (blind shot)

Cost: 5  per round

Cost of grid: 30 

Fusion Power Plant



Every round:

20  

Fossil Power Plant





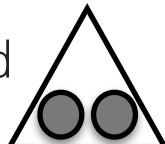
Every round:

3  5 

Fission Power Plant



Every round:

5  2  on 1 land  random
they affect the elements close by

+

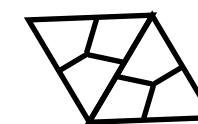
Radioactive leak

Every round with a variable probability

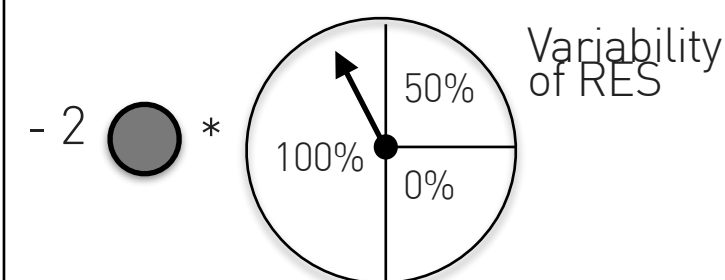
1 d8  each player

1 d12  in the Pot

RES Microgrid

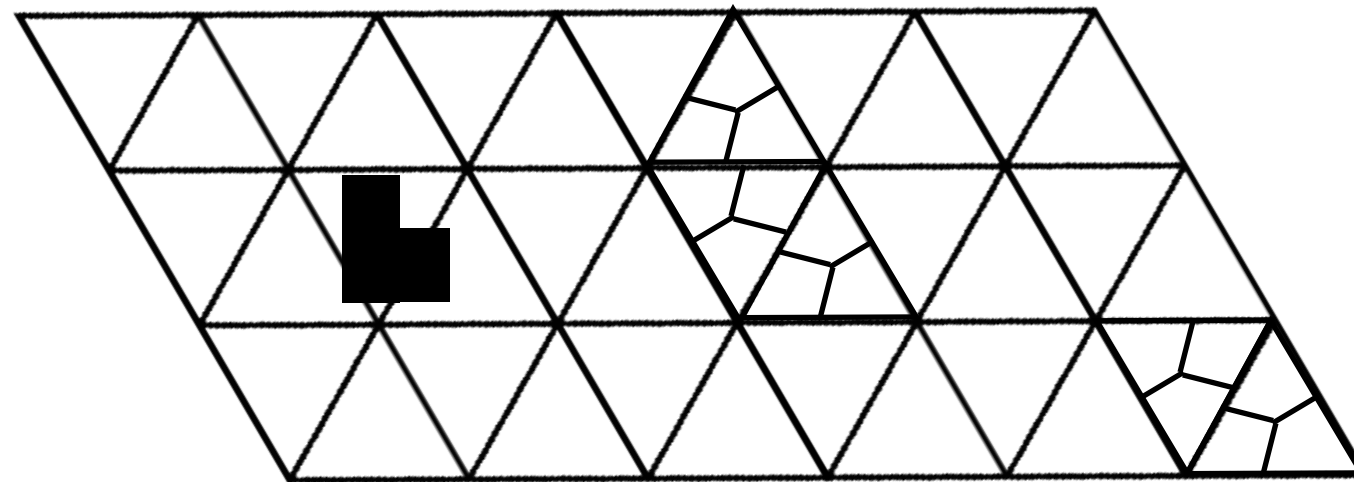


Every round:



SCENARIO 4

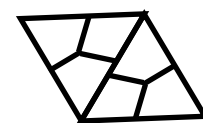
The hybrid grid



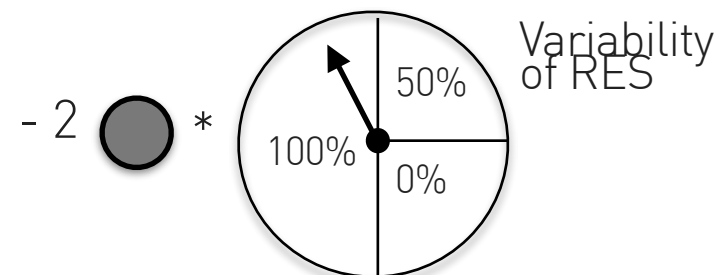
To survive



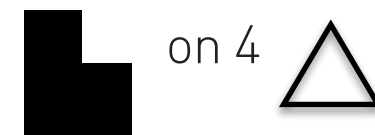
RES Microgrid



Every round:



Fossil Power Plant

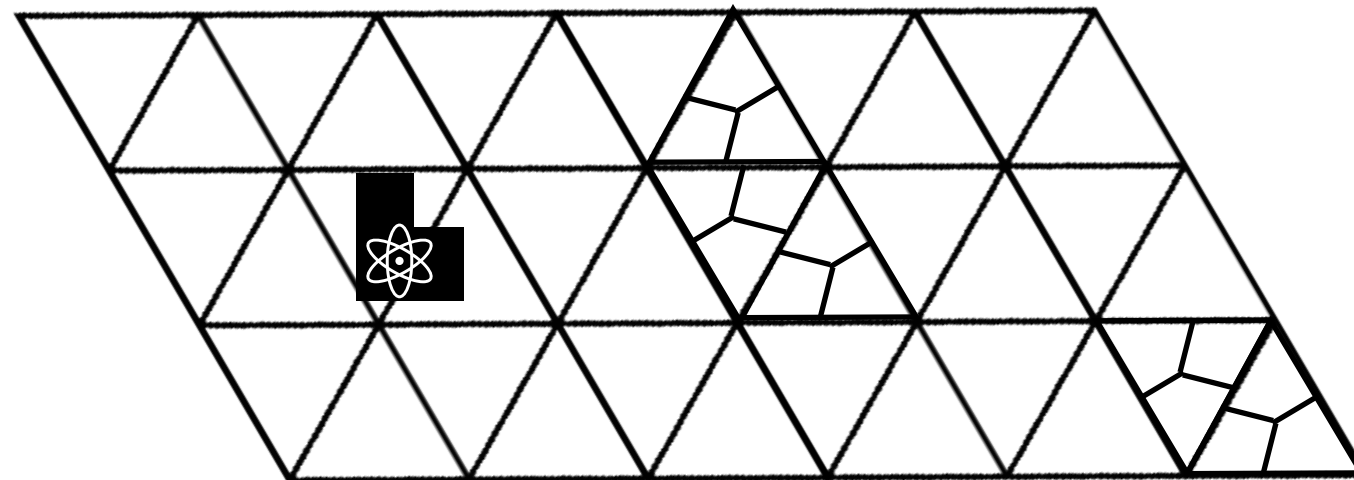


Every round:



SCENARIO 5

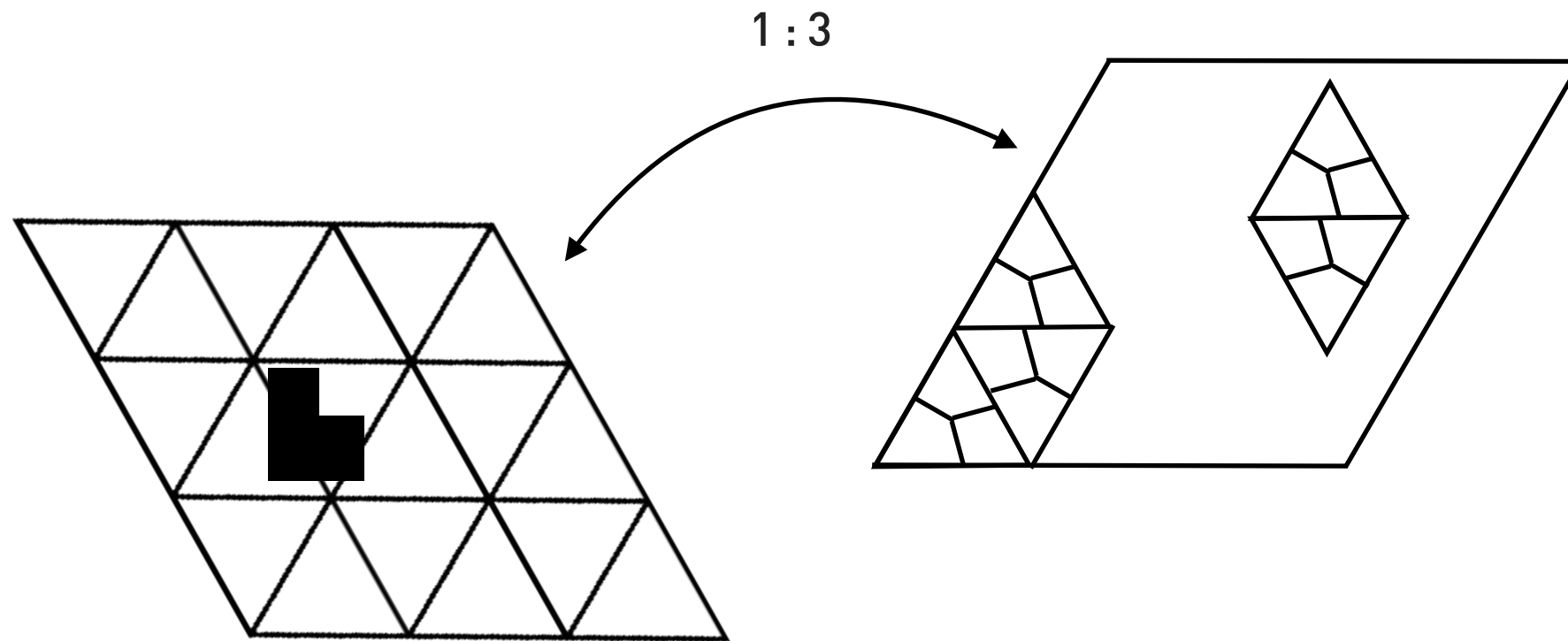
The hybrid nuclear grid



To survive	RES Microgrid	Fission Power Plant	Radioactive leak
	<p>Every round:</p> <div> - 2 * Variability of RES </div>	<div> on 4 </div> <p>Every round:</p> <div> 5 2 on 1 land random </div> <p>they affect the elements close by</p>	<p>Every round with a variable probability</p> <div> 1 d8 each player </div> <div> 1 d12 in the Pot </div>

SCENARIO 6

The 2 islands



2 Lands	To survive	RES Microgrid	Fossil Power Plant
Pot 1	on the grid	 Every round:	on 4
Pot 2	on the RES microgrid	- 2 *	Every round: 3 5

GENERAL EVENTS



LGJ EVENTS

LOCAL EVENTS

1	Internet Blackout	Tax Rise
2	Pandemic	A gipsy camp settle in your land
3	Banks close down	a cultural center on your land
4	General Strike	you get depression
5	Referendum	governments doubles your basic income
6	Xenofoby	a new mall opens in your area
1	Basic Income	cold winter halves your energy intake
2	Terrorist Attak	you don't ear the alarm, miss one round
3	Global Warming	you fall in love
4	Nuclear Disaster	goats destroy everything
5	Key Infrastructure gets hacked	flash flod
6	Data Leack	new subsidies for wind plants
1	Meteor Hits the planet	Amy Winehouse lives again
2	Fusion is perfected faster than forecasted	a radioactive spillage on your land
3	Jump 10 years ahead	a landfill sets close to your land
4	Green New Deal	aquaphonics gets subsidized
5	Spinoff of Fusion option: Lifesaving Medical applications	you get tweens
6	Spinoff of Fusion option: Cleaning tech to treat waste water	you get seriously ill
1	Spinoff of Fusion option: Cancer detection and removal tech	you file a patent for Co2 storage tech

SCENARIO #1 EVENTS

LGJ EVENTS

LOCAL EVENTS

1	General Strike! Scarcity of resources, half your yield	Incident in the Fossil Power Plant: FIRE!
2	Migrant Crisis	Oil price rises! the plant closes in 2 rounds
3	Global Government becomes Confessional	Oil price rises/lowers! Double/half your energy expenditures
4		You have cancer
5		You find a stash of weapons

SCENARIO #2 EVENTS

LGJ EVENTS

LOCAL EVENTS

1	Extreme Weather chance on the rise, all RES throw against 20% to use their power, if the throw does not pass you cannot use any procurement off the grid	Typhoon type of event. Throw against 40% to decide if you had a 1d6 of damage. Every player gets 2 grays
2	Migrant Crisis: you can have 1d4 of new players. They can join in the game without property but with 1d6 of white and 1d6 of gray	Oil price rises, the Fossil Power Plant closes in 2 rounds
3	Extreme Weather chance on the rise, all RES throw against 40% to use their power, if the throw does not pass you cannot use any procurement off the grid	Oil price rises/lowers! Double/half your energy expenditures
4	Cyberwar attack: grid offline for 1d4 rounds	Treasure hunt: you find 6 white
5		You inherit 1d6 of gray and 1d6 of white
6		You file a patent for CO2 capture and storage tech

SCENARIO #3 EVENTS

LGJ EVENTS

LOCAL EVENTS

1	Price of uranium goes wild. Fission energy expenditure doubles	Water shortage
2	Migrants flow, cheap labour!	In your vicinities there is a rise in perceived incidence of cancer as a cause of death
3		Energy discount: if you want to get served by the grid you get 50% discount
4		Art Festival in your town
5		Sell one of your land for 1d4 plus/minus of the actual price
6		You buy land half price for 2 rounds
1		Solar discount: you can get solar panels half price!
2		
3		
4		

SCENARIO #4 EVENTS

LGJ EVENTS

LOCAL EVENTS

1	Central Gov stops subsidy to RES. Double the cost of new plants and value of the ones in use	The Grid fails for 1d4 rounds
2	Bike based transport and robot last mile logistics is available	Serious Water Shortage. All activities cost double for one round and yields double next round
3	Central Government rises carbon tax	Rains for 2 rounds all SOLAR -70%
4	Central Gov lowers carbon tax	
5		
6		
1		
2		
3		

FISSION EVENTS

LGJ EVENTS

LOCAL EVENTS

1	Fission Industry gets 90% robot based: Unemployment in the sector skyrockets	You get hacked
2	Major Terrorist Attack: choose the location numbering the possible objectives and throwing a dice. Location is completely destroyed	Bees start to die
3		Electromagnetic headache. Skip next round
4		Leak at your fission plant
5		Contamination of water source
6		New wells find water
1		
2		
3		

SCENARIO #6 EVENTS

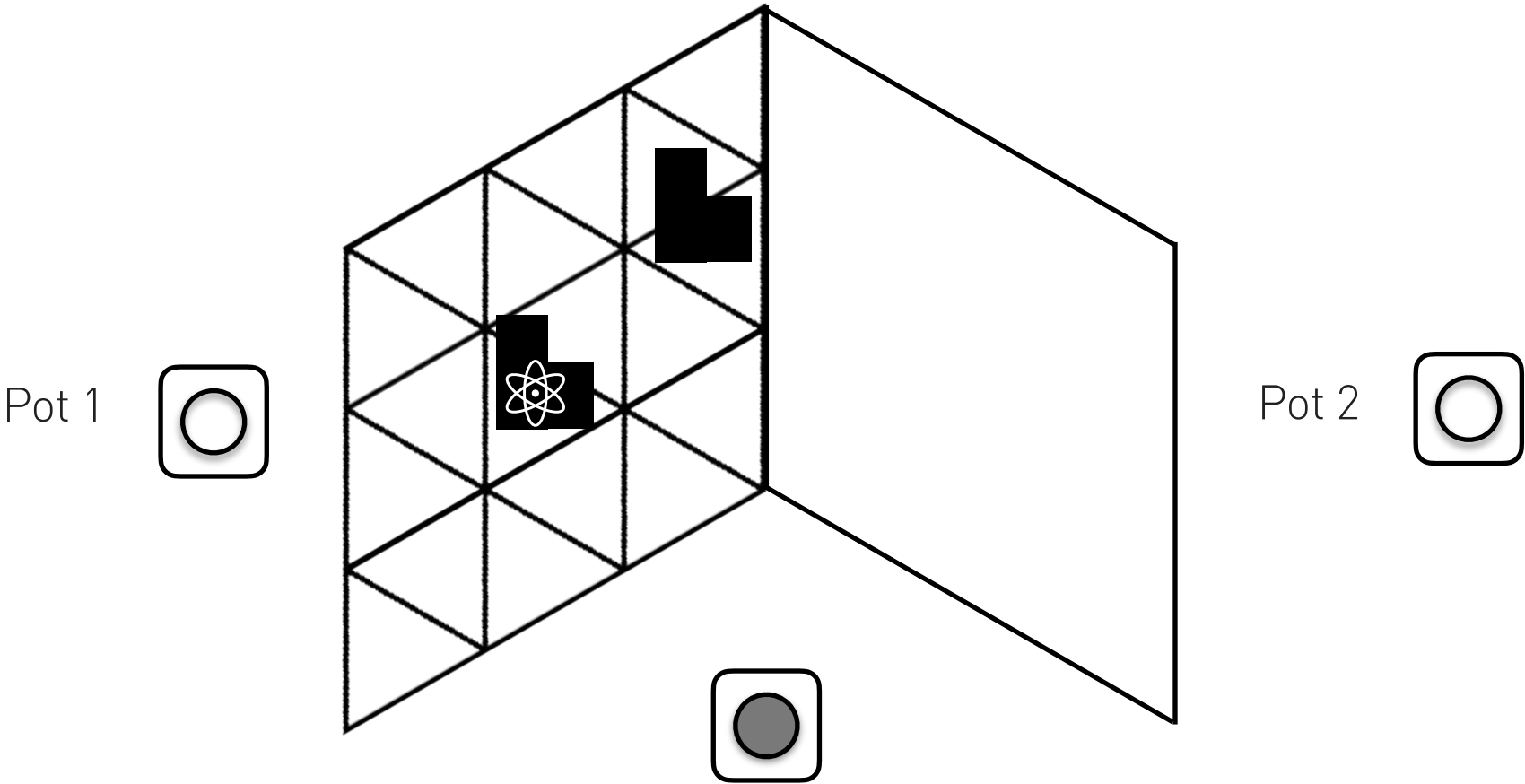
LGJ EVENTS



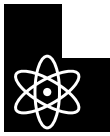









LOCAL EVENTS

1	Language confusion: the two islands cannot understand anymore what is happening on the other side unless a service of translation is set up	You become Vegan
2	Militarize against the others	Your community wants to eat only fish. Price rises
3	Peace between factions, no one wants to fight anymore	Spreads a vegan religion in your Community, meat base products sell 80% less
4	LGJ Bank Closes for 1d4 rounds	
5		
6		
1		
2		


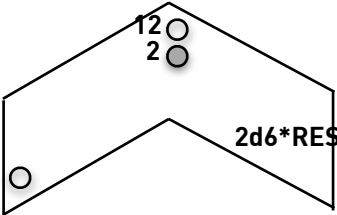



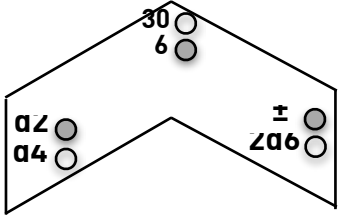







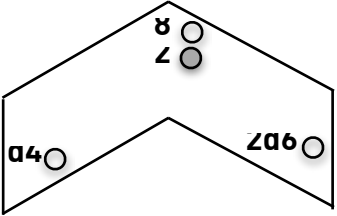





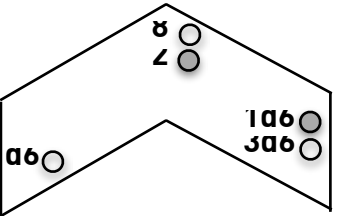





SCENARIO for FUSECome Master Training

Addiction + Grid









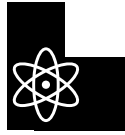







To survive	Fission Power Plant	Radioactive leak	Fossil Power Plant
<div> * </div> <div>Land 1 in Pot 1</div> <div>Land 2 1/2 by default in Pot 1</div>	<div><div></div> on 6 </div> <div>Every round:</div> <div>10  2  in storage</div>	<div>Every round with a variable probability 1d20</div> <div>1d8  each player</div> <div>1d12  in the Pot</div>	<div> on 4 </div> <div>Every round:</div> <div>3  5 </div>

Set up

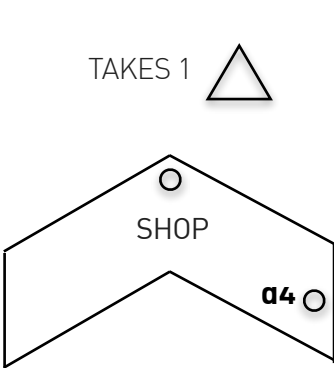
RES microgrid	CLINIC	ORGANIC FARM	FARM
TAKES 4   12  2  2d6*RES	TAKES 2   30  6  a2  a4  ± determined by a dice ±  2a6 	TAKES 4   8  2  a4  2a6 	TAKES 4   8  2  a6  1a6  3a6 

The energy option

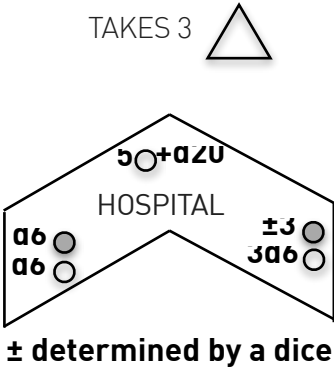
Fusion	Fusion Energy will arrive on the grid: in 1d4 if 5  in 3d4 if 2 	Fusion Power Plant  on 8  Every round: 20  
Fission	Fission plant will need to be refurbished: in 3d4 if 3  in 1d4 if 1 	Old Fission Plant  Every round: 5  Leak probability 1d10
RES	In 1d4 RES will need: 1  less if 3  1  more if 1 	

INSPIRATION

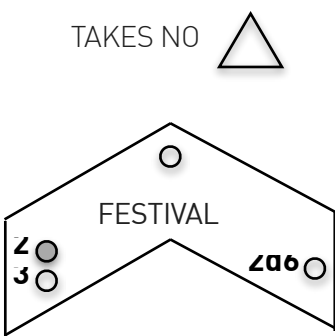
A SHOP



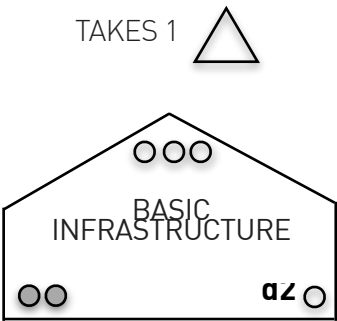
A HOSPITAL



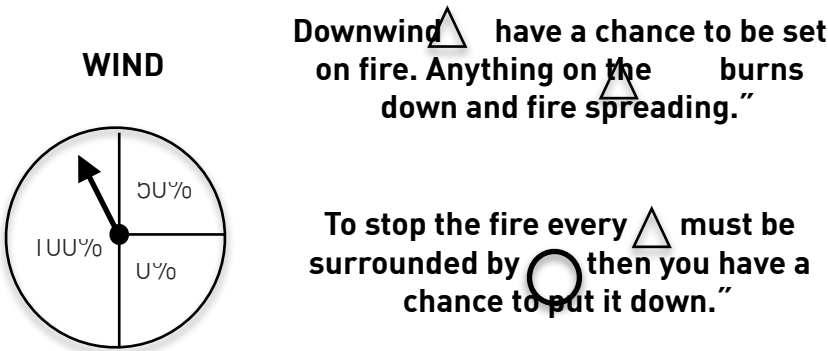
A FESTIVAL



IF OFF-THE-GRID



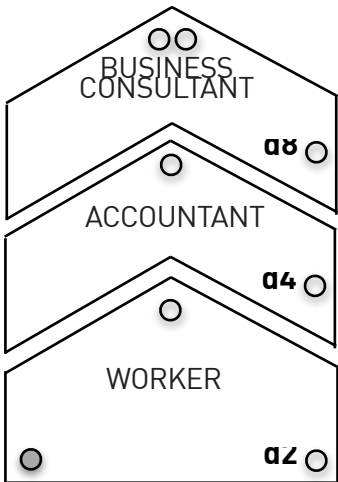
A FIRE



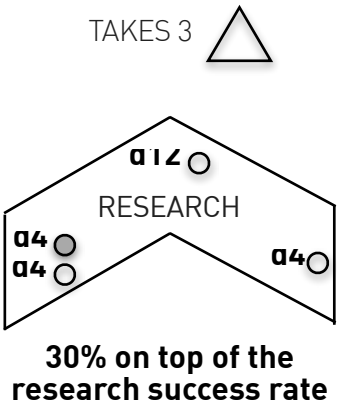
OPEN-SOURCE



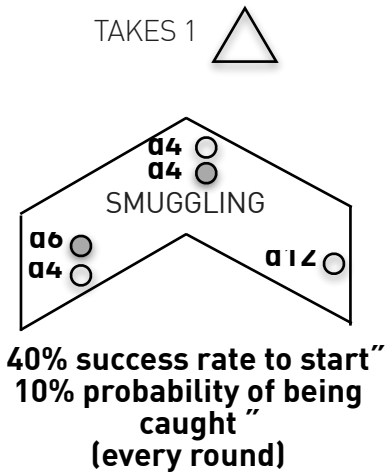
A WORKER



A RESEARCH CENTRE



A CRIMINAL ACTIVITY



GENERAL EVENTS



LGJ EVENTS

LOCAL EVENTS

1	Internet Blackout	Tax Rise
2	Pandemic	A gipsy camp settle in your land
3	Banks close down	a cultural center on your land
4	General Strike	you get depression
5	Inflation increases	government doubles your basic income
6	Xenofoby	a new mall opens in your area
1	Basic Income	cold winter halves your energy intake
2	Terrorist Attak	Money exchange becomes 1:2
3	Global Warming	you fall in love
4	Nuclear Disaster	goats destroy everything
5	Key Infrastructure gets hacked	flash flood
6	Data Leak	new subsidies for wind plants
1	Meteor Hits the planet	Amy Winehouse lives again
2	Fusion is perfected faster than forecasted	a radioactive spillage on your land
3	Jump 10 years ahead	a landfill sets close to your land
4	Green New Deal	aquaphonics gets subsidized
5	Spinoff of Fusion option: Lifesaving Medical applications	you get tweens
6	Spinoff of Fusion option: Cleaning tech to treat waste water	you get seriously ill
1	Spinoff of Fusion option: Cancer detection and removal tech	you file a patent for Co2 storage tech

SCENARIO EVENTS



LGJ EVENTS

LOCAL EVENTS

1	Price of uranium goes wild. Fission energy expenditure doubles	Water shortage
2	Extreme Weather chance on the rise, all RES throw against 20 or 40% to use their power, if the throw does not pass you cannot use any procurement off the grid	In your vicinities there is a rise in perceived incidence of cancer as a cause of death
3	Migrant Crisis: you can have 1d4 of new players. They can join in the game without property but with 1d6 of white and 1d6 of gray	Energy discount: if you want to get served by the grid you get 50% discount
4	Criminals bury radioactive wastes: choose the location numbering the possible objectives and throwing a dice. Location is completely destroyed	You become Vegan
5	Global Government becomes Confessional	Sell one of your land for 1d4 plus/minus of the actual price
6	Central Gov stops subsidy to RES. Double the cost of new plants and value of the ones in use	You buy land half price for 2 rounds
1	Bike based transport and robot last mile logistics is available	Solar discount: you can get solar panels half price!
2	Central Government rises/lower carbon tax	You find a stash of weapons
3	Language confusion: the two islands cannot understand anymore what is happening on the other side unless a service of translation is set up	The Grid fails for 1d4 rounds
4	Militarize against the others	Rains for 2 rounds all SOLAR -70%

MASTER's FOCUS & DOCUMENTATION

1. STRESS LEVEL. Balance feeling challenged (learning) and empowered (understanding)
2. CREATIVITY LEVEL. Balance creativity/openness and constrains/structure
3. ENGAGEMENT LEVEL. Balance participation and game tempo

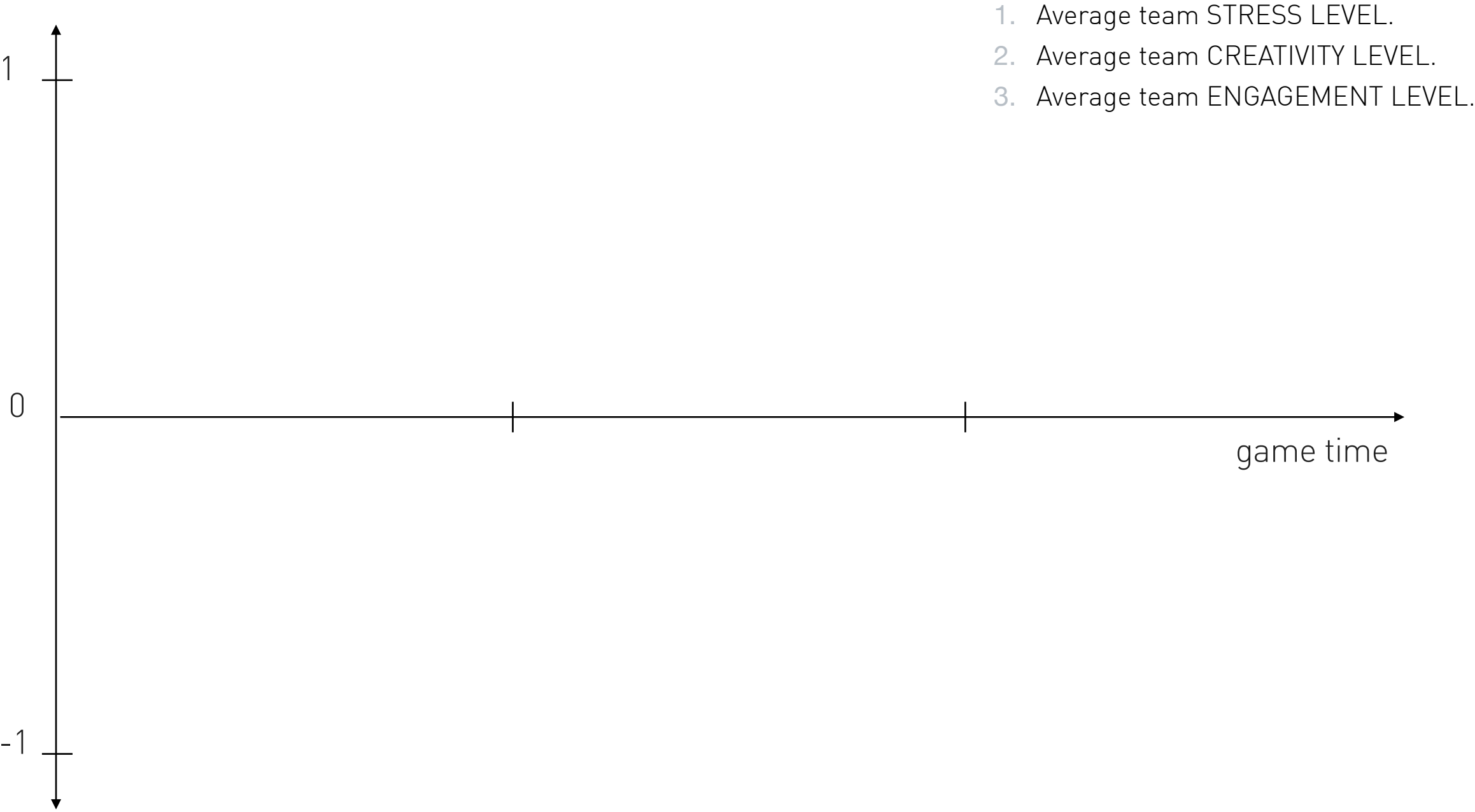
GAME ASSESSMENT



TITLE of the GAME _____

MAIN MILESTONES _____

WHO WON and HOW _____

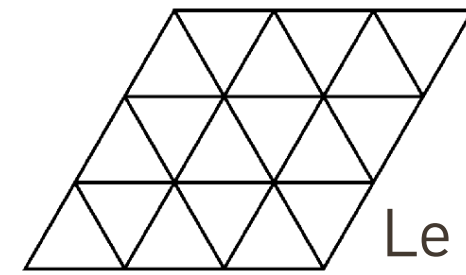


STORIES

picture or drawing

short description of the situation

game mechanism



Le Grand Jeu

