STATE

Well done, State! You've secured control with AI tools you use exclusively

The state develops AI software known only to state developers that can be used to control citizens

Great work, Market! You've kept AI secrets hidden for profit

MARKET

Companies develop AI software with hidden, biased, algorithms that are known only to the very developers

T1.1

The developed algorithms are known to researchers and are being used for research purposes, but they can also be communicated to the public

RESEARCH

Excellent, Researchers! You've unlocked AI for discovery and collaborative knowledge

Development of open AI algorithms. This leads to a democratization of AI, as their blueprints are public, and any citizen can influence their design

Fantastic, Public! You've democratized AI, opening its design to everyone

PUBLIC

STATE

Impressive, State! You've gained unprecedented access to data for powerful predictions

State actors have access to large amounts of data and information about citizens without their consent, and are able to predict the outcomes of a variety of socio-political matters

Well done, Market! You've harnessed environmental data for future profit-driven endeavours

MARKET

Businesses and companies design AI systems that store great amounts of (ostensibly environmentally orientated) consumer data for future marketing purposes

T1.2

Data are not collected without consent, are used for research purposes only, and are to be erased in the immediate future

RESEARCH

Great job, Researchers! You've gathered data responsibly, balancing research with privacy

Data are not stored without consent, and the users have full control over which exact data are being stored and used for the training of AI models

Bravo, Public! You've ensured full control over personal data for everyone

PUBLIC

STATE

Excellent, State! You've achieved digital growth while safeguarding environmental laws

AI continues to be developed to introduce countries in the digital era. While certain environmental legislation is created, they do not affect the initial overall plan of AI implementation

Well done, Market! You've prioritized AI growth, but at an energy cost

MARKET

Companies developing AI continue to consume more and more energy to strengthen their AI systems ignoring the environmental impact of such a consumption

T1.3

Small laboratories developing AI for research purposes have emerged. Their energy consumption is small, creating thus a smaller environmental impact

RESEARCH

Fantastic, Researchers! You've achieved sustainable AI development with minimal energy use

AI energy consumption is openly published, AI development occurs in small-scale urban fab labs for small-scale communities, and users can reject certain AI technologies due to their environmental impact

Great job, Public! You've achieved transparency and sustainable AI in local communities

PUBLIC

STATE

Impressive, State! You've streamlined public services with the use of AI, enhancing control over citizens

AI actors will replace human actors in public services. Citizens will rely fully on AI for their interaction with the state which, thus, will maintain control over citizen data

Great work, Market! You've optimized profits by replacing jobs with AI systems

MARKET

AI systems will be designed in such a way to ensure they will be replacing more and more working positions. Thus, the companies will be able to acquire more funding to develop even more AI systems

T1.4

AI is designed to play assistive roles in certain activities such as research, education, public services etc., without the need for replacing humans fully

RESEARCH

Excellent, Researchers! You've integrated AI as a supportive ally in vital sectors

AI actors are designed to assist people without reducing their relationships to tasks that can be replaced by algorithms

Fantastic, Public! You've ensured AI enhances human connections, without replacing them

PUBLIC

STATE

Well done, State! You've expanded surveillance, enhancing control through data collection

The potential for state surveillance increases, as the government can impose data-collection mechanisms

Great job, Market! You've made DBS a premium service, accessible only to the wealthy

MARKET

DBS becomes a premium treatment, potentially unaffordable for many without private insurance or high income

T2.1

Research centers prioritize clinical trials, making sure the technology is well-studied before mass deployment. This could delay access but improve the long-term familirization of its societal and neurological impacts, and safety

RESEARCH

Excellent, Researchers! You've prioritized thorough trials, ensuring safety but slowing widespread access

There is a push for open-source solutions and transparency in how the technology is developed and deployed, avoiding the exclusivity of market-driven approaches

You've pushed for transparency and open access, preventing exclusivity in technology use

PUBLIC

STATE

Impressive, State! You've reserved DBS for cognitive enhancement for select elites and officials

DBS for cognitive enhancement would be restricted to very specific groups, like elite government officials or soldiers

Great work, Market! You've driven rapid DBS innovation, but at the cost of potential hidden risks

MARKET

Innovation in DBS tech is rapid. However, there is little oversight, and risks such as long-term neurological damage may be downplayed or undisclosed to users

T2.2

Widespread deployment of DBS for enhancement is delayed as research centers prioritize the understanding of its full impact on the brain and society

RESEARCH

Excellent, Researchers! You've slowed DBS deployment, focusing on fully understanding its societal and neurological impacts

DBS technology for cognitive enhancement becomes widely available, with strong public backing for open, transparent systems that anyone can access

Fantastic, Public! You've made DBS widely available, ensuring open, transparent access for all

PUBLIC

STATE

Well done, State! You've employed AI for mental health monitoring

The government uses AI to collect and monitor data on patient mental states, raising concerns over privacy and potential misuse for surveillance

Great job, Market! You've commodified emotional well-being, marketing AI as a lifestyle upgrade

MARKET

Companies may promote this tech as a lifestyle upgrade, framing emotional optimization as part of daily wellness, that can lead to a commodification of emotional well-being

T2.3

The technology remains largely experimental for a long period, with researchers prioritizing clinical trials and peer-reviewed studies to understand the ethical concerns of AI intervention in emotional states

RESEARCH

Excellent, Researchers! You've kept the technology experimental, emphasizing ethical trials and studies

The public prioritizes open-source technology and transparency, ensuring the algorithms driving emotional regulation are accessible and understandable by all, with the potential for community-driven improvements

Fantastic, Public! You've championed open-source tech, making emotional regulation algorithms transparent and community-driven

PUBLIC

STATE

Impressive, State! You've implemented mandatory digital identities for all official citizen transactions

Citizens are required to use government-approved digital identities for all official transactions, including voting, healthcare, travel, and education

Great work, Market! You've created personalized identity services, but only for those who can afford it

MARKET

Companies offer personalized identity services that allow users to customize and manage their digital profiles for various platforms, but these services are only available only to those who can afford premium subscriptions

T2.4

There is a push to make digital identities educational tools, helping individuals to better understand their digital presence and personal data, though access may be limited to academic or clinical environments during early phases

RESEARCH

Excellent, Researchers! You've advocated for digital identities as educational tools, though access remains limited

Community-driven oversight ensures that individuals have full control over their data, with systems designed to prioritize user agency and protect privacy through democratic processes

Fantastic, Public! You've established community oversight, empowering individuals with control over their data

PUBLIC

STATE

Well done, State! You've enforced strict nuclear safety protocols

Safety protocols are stringent, with significant state oversight of nuclear waste disposal, and risk management. However, this may slow down the rollout of new plants, and limit energy production

Great job, Market! You've advanced nuclear tech with proprietary designs

MARKET

Proprietary reactor designs are kept secret, making collaboration among companies difficult, and limiting transparency on safety and environmental impact

T3.1

Institutions focus on nuclear innovations, such as fusion technology, and invest heavily in understanding and minimizing nuclear waste and its long-term impacts on the environment

RESEARCH

Excellent, Researchers! You've prioritized nuclear innovation and waste reduction, investing in future environmental protection

Nuclear energy projects may be decentralized, with local communities voting on the development of nuclear plants in their regions. This can potentially lead to regional disparities in energy access

Fantastic, Public! You've decentralized nuclear energy decisions, empowering communities

PUBLIC

T3.2

STATE

Impressive, State! You've committed to long-term nuclear waste management

With state control, nuclear waste management by Small Modular Reactors (SMRs) is handled in terms of long-term government plans, with high investment in containment and disposal technologies. However, the public might be skeptical of government transparency in these processes

Great work, Market! You've championed rapid SMR deployment for scalable energy

MARKET

Companies focus on rapid deployment of Small Modular Reactors (SMRs), considering them as an opportunity to provide scalable, flexible energy solutions for industrial use and remote regions. Profit-driven approaches lead to lower upfront costs but potentially less investment in advanced safety measures

Research centers prioritize the development of next-generation SMRs and focus on safety and environmental sustainability. Open, peer-reviewed designs are encouraged, allowing global academic collaboration to improve reactor efficiency and reduce waste production

RESEARCH

Excellent, Researchers! You've prioritized innovative, sustainable SMR designs, fostering global collaboration for safer and efficient reactors

Public forums and local decision-making bodies determine the pace and location of reactor deployment, which could slow down the overall process. Open-source fusion reactor development leads to widespread engagement from independent researchers, innovators, and citizens, allowing for novel ideas and grassroots technological breakthroughs

Fantastic, Public! You've empowered communities to steer reactor deployment, fueling grassroots innovation in open-source fusion technology

PUBLIC

T3.3

STATE

Impressive, State! You've built regional SMR energy hubs for security and resilience

Governments prioritize the development of regional energy hubs using SMRs to enhance energy security and resilience, particularly in areas that rely on traditional fossil fuels. This could foster energy independence but may neglect the needs of smaller or less powerful nations

Great job, Market! You've expanded SMR technologies through global partnerships, aggressively marketing to governments in the Global South

MARKET

Companies engage in international partnerships to develop and sell SMR technologies, using aggressive marketing strategies to secure contracts with various governments, particularly those in the Global South

Global cooperation fosters a shared understanding of nuclear fusion technologies, with institutions conducting joint studies on their potential role in mitigating climate change. However, progress may be slow due to complex scientific and technical challenges

RESEARCH

Excellent, Researchers! You've promoted global cooperation on fusion technologies, tackling climate change

Public forums prioritize discussions on the ethical implications of nuclear energy and climate change, fostering a more informed citizenry that actively participates in policy development regarding SMRs in the global South

Fantastic, Public! You've prioritized ethical discussions on nuclear energy, empowering informed citizens to shape SMR policies

PUBLIC

T3.4

STATE

Impressive, State! You've bolstered nuclear energy infrastructure, reducing foreign dependency

Countries develop nuclear energy infrastructure to reduce dependency on foreign oil and gas. This results in increased investments in domestic nuclear power plants and research into advanced reactor technologies

Great work, Market! You've positioned nuclear energy as a reliable option

MARKET

Companies aggressively market nuclear energy as a stable, reliable source during geopolitical instability, potentially leading to a rapid expansion of new nuclear facilities driven by profit rather than comprehensive safety assessments

Collaborative research initiatives aim to develop advanced nuclear technologies that are resilient to geopolitical tensions, such as modular reactors with enhanced safety features and waste reduction technologies

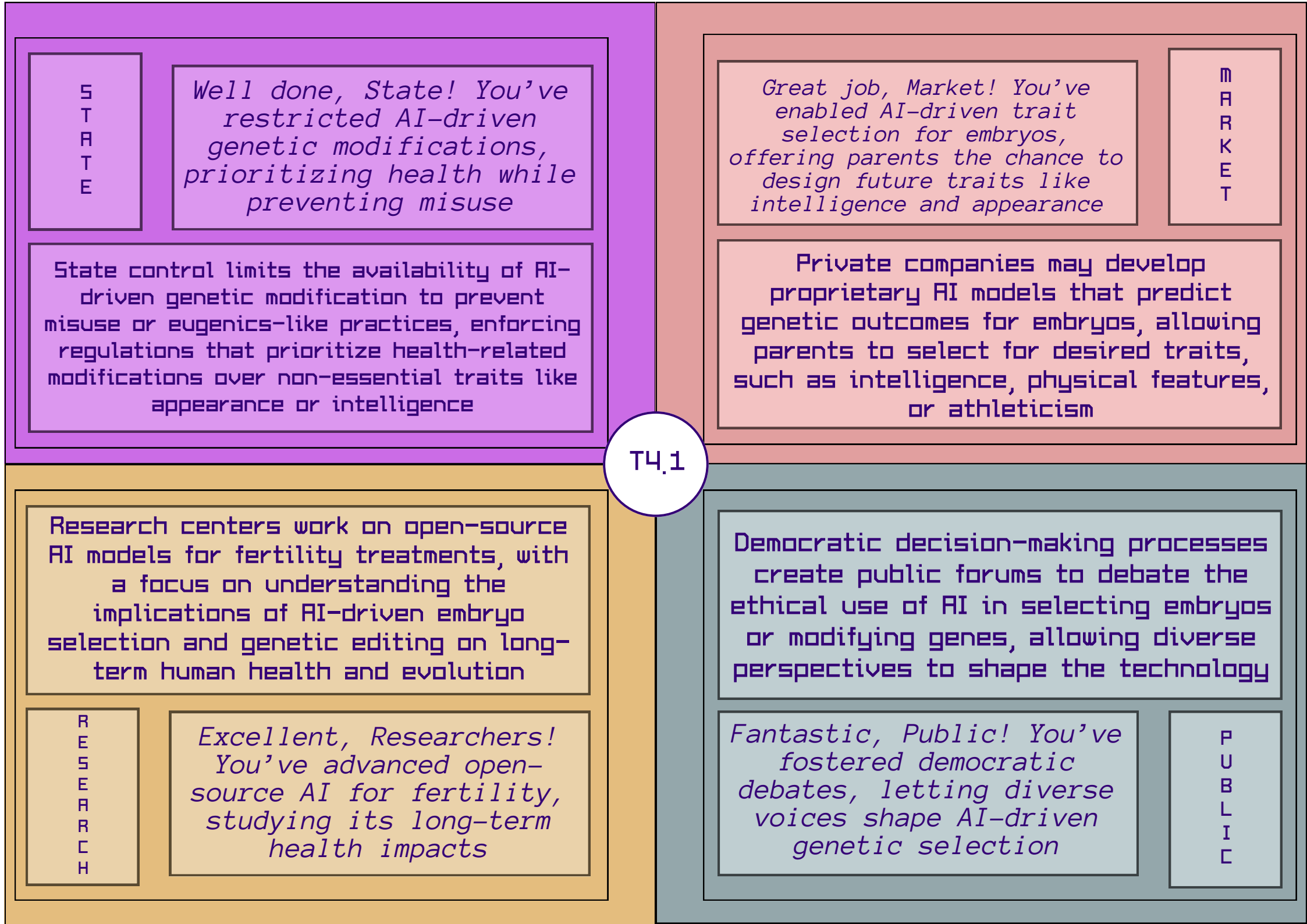
RESEARCH

Excellent, Researchers! You've fostered collaboration on advanced nuclear tech, enhancing safety and waste reduction

The emphasis on public control could lead to innovative grassroots initiatives, such as community-led nuclear projects that prioritize safety and sustainability

Fantastic, Public! You've championed grassroots initiatives, leading to community-led nuclear projects focused on safety and sustainability

PUBLIC


STATE
Well done, State! You've restricted AI-driven genetic modifications, prioritizing health while preventing misuse
State control limits the availability of AI-driven genetic modification to prevent misuse or eugenics-like practices, enforcing regulations that prioritize health-related modifications over non-essential traits like appearance or intelligence
MARKET
Great job, Market! You've enabled AI-driven trait selection for embryos, offering parents the chance to design future traits like intelligence and appearance
Private companies may develop proprietary AI models that predict genetic outcomes for embryos, allowing parents to select for desired traits, such as intelligence, physical features, or athleticism
T4.1
RESEARCH
Excellent, Researchers! You've advanced open-source AI for fertility, studying its long-term health impacts
Research centers work on open-source AI models for fertility treatments, with a focus on understanding the implications of AI-driven embryo selection and genetic editing on long-term human health and evolution
PUBLIC
Fantastic, Public! You've fostered democratic debates, letting diverse voices shape AI-driven genetic selection
Democratic decision-making processes create public forums to debate the ethical use of AI in selecting embryos or modifying genes, allowing diverse perspectives to shape the technology


STATE
Well done, State! You've enforced gender-neutral AI in reproduction, ensuring health-focused selections and compliance with anti-discrimination laws
The state mandates the use of gender-neutral algorithms in AI-assisted reproduction technologies. AI systems will only select embryos or guide fertility treatments based on health-related factors rather than any gender-related criteria, ensuring compliance with anti-discrimination laws
Great job, Market! You've tailored AI to meet gender preferences
MARKET
AI systems used by private fertility clinics may cater to gender preferences based on market demand, offering parents the option to select embryos for a desired gender, which could reinforce existing gender biases and preferences (e.g., the preference for male offspring in some cultures)
T4.2
Academic collaboration promotes the development of gender-sensitive AI that acknowledges legitimate biological differences between genders without reinforcing harmful biases
RESEARCH
Excellent, Researchers! You've developed gender-sensitive AI, balancing biology and bias
Citizen-driven oversight results in community-based fertility clinics adopting AI models that are regularly reviewed by public ethics committees to ensure that no discriminatory practices (such as gender-based embryo selection) are allowed
Fantastic, Public! You've ensured community clinics use AI with ethical, non-discriminatory oversight
PUBLIC

STATE

Well done, State! You've centralized reproductive data for fertility optimization and risk reduction

Governments create centralized databases that track reproductive data from all individuals undergoing AI-assisted reproduction. These data are used to optimize fertility rates and minimize complications

Great job, Market! You've positioned AI fertility services as premium options for modern reproduction

MARKET

AI-driven fertility services are marketed as the superior, modern way to reproduce. Private companies create exclusive platforms that offer personalized reproductive management through AI, with advanced gene-editing tools and AI-guided embryo selection as premium services

T4.3

Universities promote research-based biomedical solutions for reproduction, including gene-editing protocols that eliminate genetic diseases. They also explore how AI can predict and manage reproductive health issues across a lifetime, offering pre-emptive medical interventions for individuals at risk of infertility or pregnancy complications

RESEARCH

Excellent, Researchers! You've advanced gene-editing and AI solutions for reproductive health

Public forums shape the development of open-source AI tools for reproduction, emphasizing transparency and inclusivity in their biomedical applications. There may be community-driven limits on technologies that push for excessive medicalization, such as gene editing for non-medical traits

Fantastic, Public! You've guided open-source AI in reproduction, ensuring transparency and community-driven limits

PUBLIC

T4.4

STATE

Well done, State! You've implemented real-time AI monitoring for pregnancy and genetic screening

State-run AI systems monitor pregnancies in real-time, screening for genetic abnormalities such as Down syndrome, cystic fibrosis, or other hereditary diseases, and making automatic risk predictions

MARKET

Great job, Market! You've launched luxury AI prenatal services for health and desirable traits

Private companies create exclusive AI platforms for prenatal care, where advanced genetic risk predictions and diagnostics are sold as luxury services, focusing not only on health but also on desirable traits such as intelligence or physical appearance

RESEARCH

Excellent, Researchers! You've prioritized ethical AI, supporting informed reproductive choices without imposing decisions

Ethical AI is prioritized, with a strong focus on ensuring that AI predictions do not enforce any specific reproductive choices but instead provide supportive data to help parents make informed decisions

PUBLIC

Fantastic, Public! You've secured open-source access to genetic data, prioritizing privacy and consent

The public insists that AI-based genetic data and diagnostic predictions are made available through open-source platforms, ensuring that individuals have full control over how this data are used and shared. Public systems prioritize privacy and consent in reproductive decision-making

STATE

Well done, State! You've established national testing protocols and centralized health data systems

The government develops national testing protocols and centralized databases that collect and analyze data from tests, contact tracing apps, and public health reports

Great job, Market! You've boosted rapid testing innovation, but access disparities have emerged

MARKET

The availability of diverse testing options may lead to rapid testing capabilities and innovation, but inequities in access emerge as those who can afford premium services receive better care

T5.1

Ethical considerations guide the deployment of AI in testing technologies, with transparency in data collection and usage, ensuring that individuals are informed and consent to their data being used

RESEARCH

Excellent, Researchers! You've prioritized ethical AI in testing, ensuring transparency and informed consent

The public demands open data practices, ensuring that information about testing accuracy, results, and public health measures is freely available and easily understood by all citizens

Fantastic, Public! You've ensured open access to testing data, making health information clear and accessible to everyone

PUBLIC

STATE

Well done, State! You've established real-time public health monitoring through a national testing database

A national database is created to track test results and patient information, allowing for real-time public health monitoring and strategic decision-making regarding lockdowns and resource allocation

Great job, Market! You've advanced AI-driven testing with personalized health recommendations, fueled by targeted advertising

MARKET

Companies use targeted advertising to promote their testing technologies, which may include AI-driven analytics for rapid result interpretation and personalized health recommendations

T5.2

Research centers collaborate with public health authorities to implement community-based testing programs that are scientifically validated, ensuring that testing methods are effective and reliable

RESEARCH

Bravo, Researchers! You've implemented scientifically validated, community-based testing programs that ensure reliable results

Community organizations collaborate with health professionals to establish grassroots testing initiatives, ensuring that testing is accessible and tailored to local needs

Well done, Public! You've established grassroots testing initiatives, making health testing accessible to community needs

PUBLIC

T5.3

STATE

Great work, State! You've ensured that all diagnostic tests undergo rigorous validation, prioritizing public safety and reliability

The government implements mandatory validation processes for all diagnostic tests, requiring companies to prove the accuracy and reliability of their tests through rigorous clinical trials before they can be deployed

Well done, Market! You've flooded the market with diverse testing options, leaving consumers to navigate the challenge of determining accuracy

MARKET

A variety of tests with differing levels of accuracy flood the market, creating confusion among consumers about which tests are reliable and which are not

Research Centers conduct independent studies to validate the accuracy of various tests, providing transparent reports to the public about test performance and reliability

RESEARCH

Excellent, Researchers! You've validated test accuracy through independent studies, ensuring transparency in performance reports

The public advocates for policies that support the development and distribution of accurate tests, ensuring that marginalized communities receive access to reliable testing technologies

Fantastic, Public! You've championed policies for equitable access to accurate testing, prioritizing marginalized communities

PUBLIC

STATE

Well done, State! You''ve allocated funding for new and improved testing facilities, enhancing rapid and accurate testing capabilities

The government allocates funding to build new testing facilities and expand existing ones, ensuring they are equipped with the latest technologies for rapid and accurate testing

Great job, Market! You've boosted testing capacity with mobile units and at-home kits, catering to consumer convenience

MARKET

Companies invest in building mobile testing units and offering at-home testing kits, significantly increasing testing capacity, while catering to consumer demand for convenience

T5.4

Innovative approaches such as pooled testing are implemented to maximize capacity, allowing multiple samples to be tested simultaneously, thus increasing efficiency during high-demand periods

RESEARCH

Excellent, Researchers! You've introduced pooled testing to enhance efficiency, maximizing capacity during high-demand periods

Public forums are held to gather community input on testing strategies, allowing residents to express their needs and preferences regarding testing accessibility and frequency

Fantastic, Public! You've organized forums to gather community input on testing accessibility and strategies

PUBLIC

STATE

Great job, State! You've centralized energy planning, focusing on massive national renewable projects

The government prioritizes centralized energy planning, investing heavily in large-scale renewable energy projects such as national solar farms, offshore wind installations, and hydroelectric dams to meet energy needs

Way to go, Market! You've driven innovation, but monopolized key renewable technologies

MARKET

The market encourages the development of proprietary technologies, where innovations, like efficient energy storage systems or enhanced turbine designs, are held by individual companies. This can create monopolies over key renewable resources

T6.1

Research centers focus on developing sustainable energy technologies that reduce reliance on scarce resources, such as creating more efficient solar panels that require fewer rare materials, or investigating alternative energy sources like geothermal power

RESEARCH

Great work, Researchers! You've pioneered sustainable energy tech with fewer resource demands

Communities push for the localization of renewable energy production, with initiatives like community-owned solar farms and wind cooperatives that ensure local control over energy resources and their benefits

Bravo, Public! You've championed localized, community-owned renewable energy projects

PUBLIC

STATE

Well done, State! You've ensured equal access to renewable energy across all regions

Technical designs are standardized to ensure that every region gets access to the same renewable energy technologies, such as solar panels or wind turbines, regardless of local economic or geographic limitations

MARKET

Great work, Market! You've established a system where energy users rely exclusively on your company's tech

Closed-loop energy systems are developed: companies install proprietary technologies (e.g., solar arrays with specific battery designs) that lock users into purchasing only from them for future maintenance and upgrades, limiting, thus, broader access

T6.2

Academics and engineers design energy-efficient housing and building materials, integrating renewable energy systems (e.g., solar-integrated roof tiles, energy-efficient windows) into construction practices, especially for low-income housing projects

RESEARCH

Well done, Researchers! You've integrated renewable energy into homes, making sustainable living more accessible

Technical designs emphasize participatory design processes, in which local populations work with engineers and designers to create renewable energy solutions that address their specific needs, such as designing wind turbines that are appropriate for local wind patterns or solar arrays that suit specific rooftop layouts

PUBLIC

Great job, Public! You've shaped renewable energy designs that truly reflect local needs and realities

STATE

Well done, State! You've ensured that renewable energy technologies prioritize long-term reliability and security for all

State ownership influences technical designs by prioritizing reliability and durability over short-term profits, resulting in the development of long-lasting, robust technologies like advanced battery storage systems to prevent power outages and ensure energy security

Great job, Market! You've driven innovation towards scalable renewable energy solutions, but rural areas may face challenges in access

MARKET

Ownership-driven innovation encourages companies to design renewable energy technologies that are highly scalable for urban centers and industrial applications, but may neglect rural areas or low-profit regions where infrastructure investment yields lower returns

T6.3

Research centers design open-source renewable energy technologies, allowing local governments, communities, and cooperatives to build and own their own modular and scalable solar, wind, or hydroelectric installations

RESEARCH

Fantastic, Researchers! You've created open-source renewable tech that empowers communities to build their own energy solutions

Technical designs are focused on small-scale, decentralized systems, such as rooftop solar installations, home battery storage, and community wind farms, where local users can generate and consume their own energy without the need to depend on large corporations or state-owned grids

Awesome job, Public! You've embraced decentralized energy systems, empowering locals to generate their own power

PUBLIC

STATE

State! You've established centralized maintenance systems for efficient renewable energy upkeep and repair

Maintenance systems are centralized, with state-run repair and servicing programs that deploy government-trained technicians to handle upkeep and repairs. Renewable energy technologies are designed for ease of government-managed servicing, with built-in diagnostics that can send alerts to a central system for maintenance scheduling

Great job, Market! You've created a cycle of continuous purchasing with designs that encourage planned obsolescence

MARKET

Planned obsolescence may be built into some designs, where components are deliberately made to wear out or become obsolete after a certain period, encouraging users to purchase newer models rather than repair old ones. This shortens the overall life cycle of the technologies

T6.4

The design of renewable energy technologies emphasizes modularity, allowing different components to be easily replaced or upgraded without requiring the whole system to be overhauled. This extends their life cycle and makes systems future-proof, as new advancements can be incorporated into the existing infrastructure

RESEARCH

Fantastic, Researchers! You've prioritized modular designs that extend the life cycle of renewable energy technologies and keep them future-proof

Public influence leads to the creation of community repair hubs and energy co-ops, where local technicians can collaborate to service and maintain shared renewable energy systems, such as community wind turbines or neighborhood solar arrays. These hubs serve as centers of both technical knowledge and social equity, ensuring everyone in the community can access and maintain renewable energy systems

Great job, Public! You've established local repair hubs, fostering collaboration and ensuring equitable access to renewable energy maintenance

PUBLIC