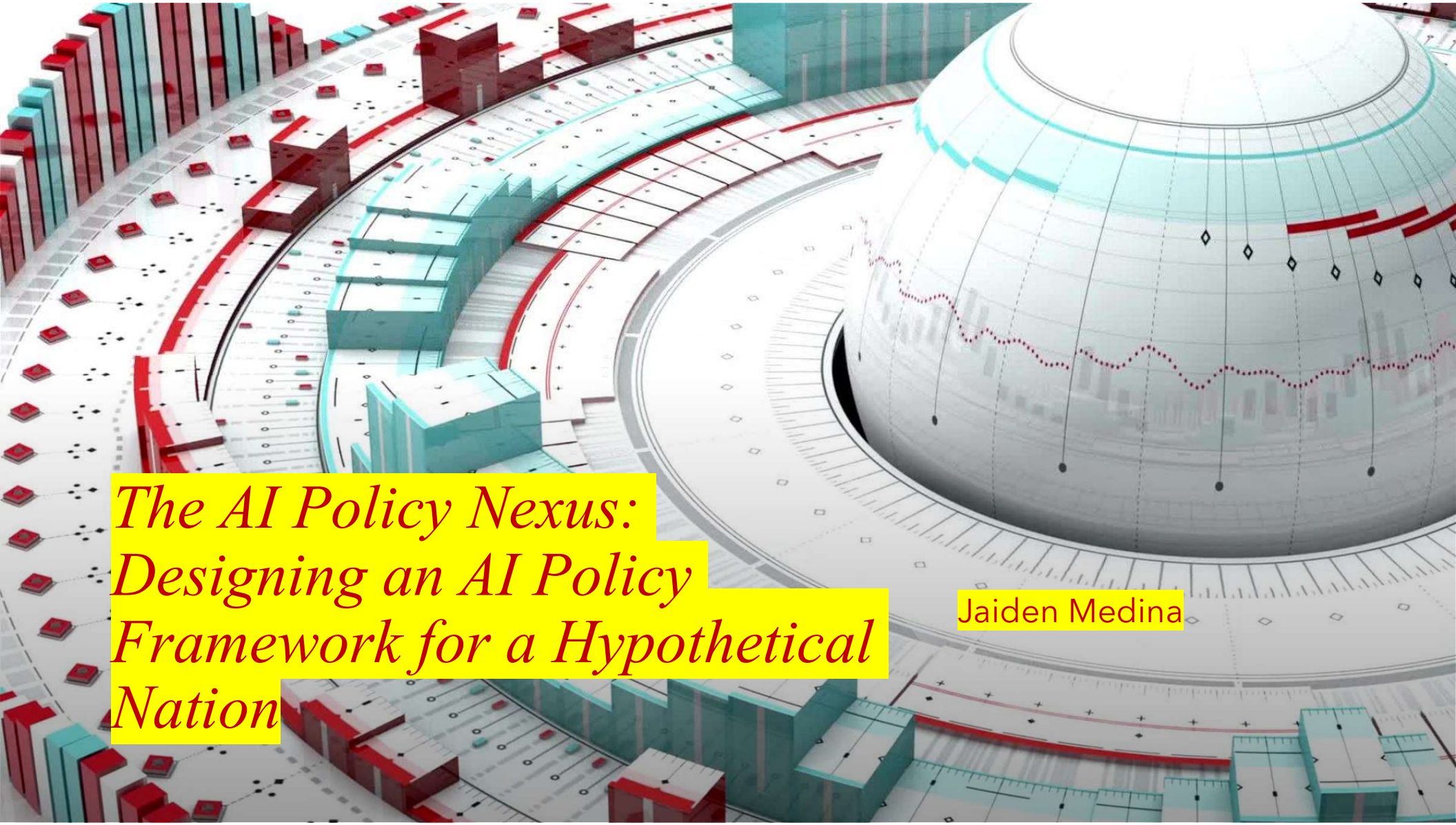


The AI Policy Nexus: Designing an AI Policy Framework for a Hypothetical Nation

Jaiden Medina

Country Profile & Contextualization*

Country Name**

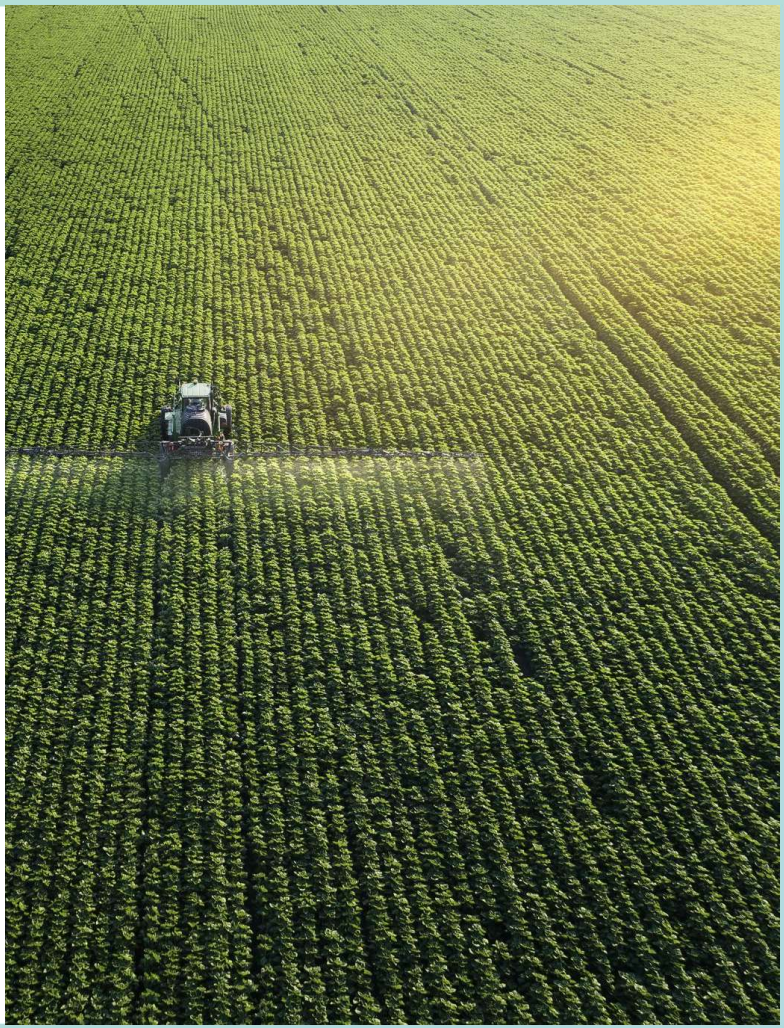
Russeleiente

Economic Status**

- Government Type:
  - Constitutional Monarchy
- Currency Used:
  - RSDریال
  - Conversion Rate:
    - 1 USD = 5RSDریال
  - Middle Class Nation
  - GDP (USD): $406,30,000,000
  - Annual GDP Growth Rate:
  - 5.13% - Country Economy is Growing at a high rate

Economic Status Cont.

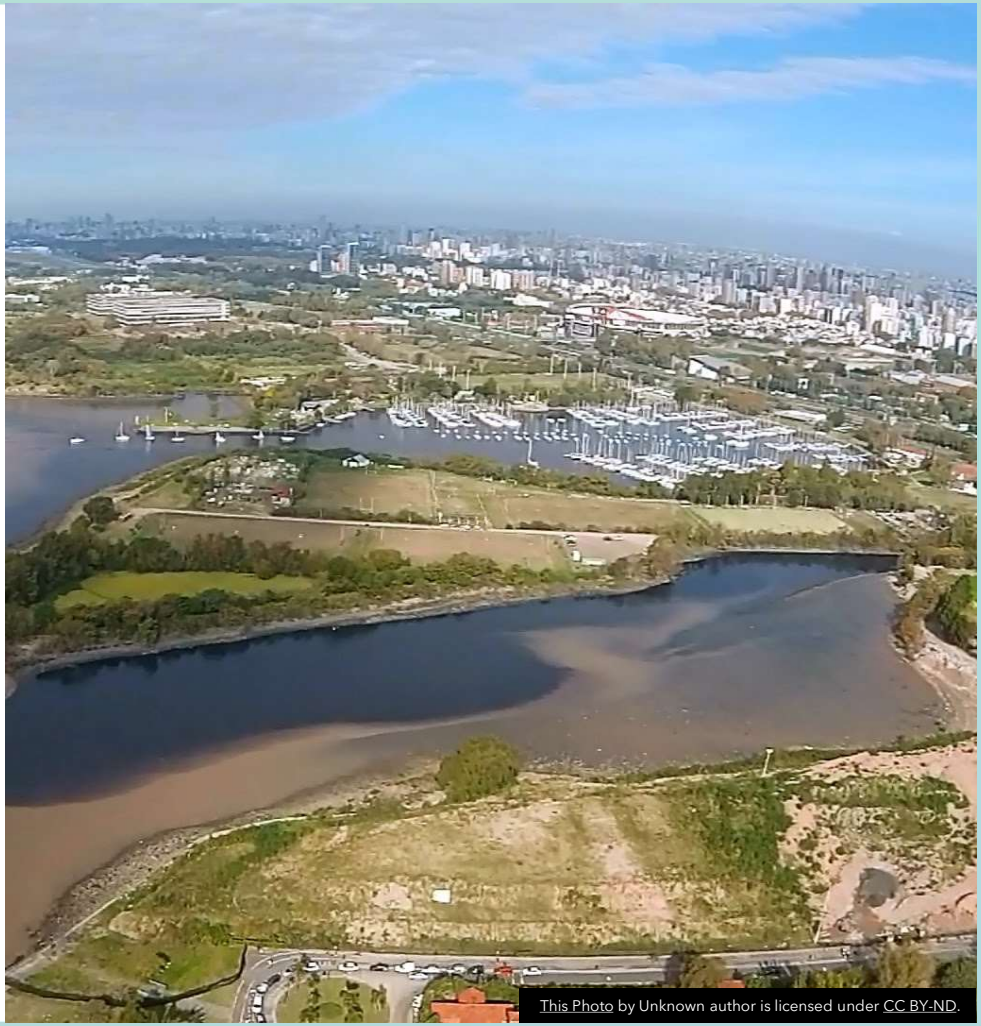
- GDP World Rank (Converted to USD):
- 36th; Behind Malaysia (36th), In front of South Africa (38th)
- GDP Per Capita (Converted to USD):
- $13,424
- Population:
- 7.394 Million People
- Agriculture Based Economy
- 60% of people work in the farming and ranching industries. 30% work in the fishing industry. The top 10% of workers don't work in these fields. That10 % mainly work in the capital (Veridianth) doing governmental duties, technological services, or other services



Cultural Context**

Geography and Agriculture***

- Location: Situated in South America
  - Neighboring Countries: Brazil (North), Uruguay (South), Argentina (West)
  - Russeleiente's Eastern Border is a Coastline (Atlantic Ocean)
  - Has vast fertile plains, river valleys (Most important being the Rio de la Plata & Lagoa los Platos); Which Contributes to the well irrigated fields
  - Most Cities and Towns (Including the Capital) situated on the aforementioned Rio de la Plata



Key Industries and Cultural Norms***

Agriculture is backbone of economy and a way of life for most people

Heavily Trade Reliant for other natural resources:

- Trades Agricultural Items for Oil, Tech, Etc.

37% of 15–19-year-olds are enrolled in general upper secondary education. A further 10% are enrolled in lower secondary programs and 6% in tertiary programs

Education is reserved for upper- & middle-class citizens

Class is based on whether you work in the capital or how successful an agriculture worker is

Key Industries and Cultural Norms Cont.***

Inherently Matriarchal Society	Women role in society mainly serve as home keepers	But have similar rights to men and are respected
Culturally rich society	Capital is tourist hub	51% White (European), 37% Mestizo (European + Indigenous Mixed), 7% Indigenous, 4% Black, 1% other
Technology is developing in the nation	52% of population is technologically literate	
High Literacy Rate	86% of population is literate	
National Language	Spanish + Portuguese	

Technological Infrastructure**

Technological Infrastructure***

- Technological Structure is present but growing
  - Countries government is willing to start implanting tech into main industries
    - International leader in this area
  - Tech Literacy is Growing at unprecedented rate
    - Due to
      - having an abundance of citizens from the ages of 0-35 years old (60%)
      - Government programs in every school
      - Upstart tech companies moving into Russeleiente due to tax breaks

Stakeholder Analysis*

- The five main stakeholders:
  - Agricultural Workers
  - Government Agencies
  - Agribusiness
  - Consumers
  - Environmental and Conservation Organizations

Agricultural Workers

- Backbone of society
  - Sustainability is key for trade and commerce
- Policies should be designed to support agricultural workers
  - Implementation of AI should be slow and in favor
  - designed to support and empower farmers, promoting sustainable and efficient agricultural practices.
- Concerns:
  - Older farmers may be worried about access and ability to have technological trainings
  - Ability to adapt
  - Fears of job replacement as AI automated task take over certain manual labor jobs

Government Agencies

- Government agencies responsible for agriculture, rural development, and related sectors are crucial stakeholders
  - The major contributions
    - formulate policies,
    - provide financial support,
    - regulate the industry,
    - play a pivotal role in addressing issues such as
    - land use, water management, and rural infrastructure development.
- Concerns:
  - Trouble in implementing AI smoothly into society without a fall in production
  - The number of resources that will need to allocated that will take away from certain major industries for an undisclosed amount of time

Agribusiness

Companies involved in various stages of the agricultural value chain, including:

- input suppliers
- Processors
- Distributors
- Retailers

significantly influence the economic dynamics of the sector. Their practices and decisions can impact everything from the availability of agricultural inputs to the pricing and accessibility of food products.

Concerns:

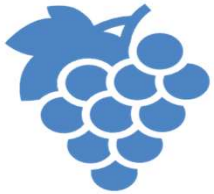
- Return On Investment; These agricultural businesses have to be completely sure that it will be profitable
- Market Dynamics: Market Dynamics may shift because of this implementation and affect business in an unknown way

Consumers

Have influence on the market due to:

Demand, food preferences, and sustainablity considerations

Consumer choices drive production practices, types of agriculture cultivated, food processing methods, and overall direction of market



Concerns:

Consumers may be worried about food and Safety Concerns and overall quality of AI produced or AI aided agricultural products

Citizens will seek to understand AI and demand ethical considerations be considered in future policies

Environmentalist and Conservationalist Organizations

With increasing awareness of environmental issues, organizations focused on sustainable agriculture and conservation play a critical role, they,	advocate for practices that minimize environmental impact Promote biodiversity Ensure the long-term health of ecosystems.
Concerns:	Concerns about the environmental impact of AI technologies in agriculture. Organizations may advocate for the use of AI in ways that promote sustainable farming practices and minimize ecological footprint Worries about the potential effects of AI on biodiversity and ecosystems. Conservationist organizations may seek assurances that AI adoption does not contribute to environmental degradation.


Risk
Assesmant and
Ethical
Considerations

Risk Assesment

- Unemployment due to automation
- Mitigation: Implement targeted workforce reskilling programs with industry collaboration.
- Privacy concerns:
  - Mitigation: Develop stringent data protection laws and transparent data governance policies.
- Biases in AI algorithms:
  - Mitigation: Enforce regular audits of algorithms and promote diversity in AI development teams.
- Security threats:
  - Mitigation: Strengthen cybersecurity infrastructure and create rapid response protocols.

Ethical Considerations

Addressing cultural biases in AI systems:

Action: Establish a dedicated committee for cultural considerations in AI development.

Preventing misuse of AI technology:

Action: Develop a robust regulatory framework with stringent penalties for misuse.

Upholding fundamental rights:

Action: Embed privacy and human rights considerations in AI policies and implementation.

Policy Formation & Implementation Strategies

Policy Formation

6 WAYS RUSSELEIENTE WILL FORM ITS AI POLICY

CAPACITY, SKILLS, AND EDUCATION INCLUDING WORKFORCE RESKILLING.

RESEARCH & DEVELOPMENT

DATA AND DIGITAL OWNERSHIP

ETHICAL STANDARDS

INTEGRATION WITH GLOBAL STANDARDS.

AI IN GOVERNMENT AND PUBLIC SERVICES.

Capacity, Skills, and Education including workforce reskilling.

- Action:
  - Develop and pilot a comprehensive AI education curriculum in selected schools.
    - Include out of school programs, curriculum, and encourage outside learning through TV and national announcements
  - Establish AI research centers with local universities to foster talent development.
    - Create a program to take the top pupils and implement them with greater resources and government jobs

Research and Development

- Action:
  - Provide grants for interdisciplinary AI research projects with a focus on societal impact.
    - This will be to independent researchers, Collegiate Researchers, and to government and individual companies.
    - These studies will be published in state run media
    - Therefore, influence the younger generation as the impacts will be seen in everyday society
  - Create innovation hubs to facilitate academia-industry collaboration.
    - Similar to the Luddy LLC at Teter Quadrangle at Indiana Unversity Bloomingotn – An innovation hub with all of the resources available to foster innovation with instructors mainly to guide.
    - These academia-industry collaboration will take students into companies to be fostered and provide new ideas.
      - A majority of these students will be taken from agriculutral institutions

Data and Digital Ownership

- Action:
  - Define clear regulations on data ownership and usage.
    - These will guide innovation and regulation
    - Will aim to protect citizens since economy is reliant
      - Mainly supports agricultural workers, companies, and college students
  - Establish a data governance framework ensuring transparency, accountability, and compliance.
    - Government will be open a congressionalmeetings will be open to the public and streamed on public television as well as published in the newspaper
    - A representative from each quadrant (Counties / States) will be present at every meeting making decisions for the citizens of their quadrant
    - These representatives will be re-elected every3 years to ensure they are working for the people. And it will keep up with innovation
      - A maximum of 3 terms
      - Age Limits for Presidents and Parlaiment members: 55 Years, 364 Days

Ethical Standings

- Action:
  - Develop a comprehensive code of ethics for AI developers.
    - This code of ethics will have a set of officers and a legal counsel for those who violate that code to enforce punishments
    - A team will be assigned by the government to monitor all uses of AI and deem if it is ethical and right
      - This ensures that this code is followed
  - Institute an AI ethics review board for project evaluations, with public representation.
    - As recently stated, have a board whose sole purpose is to enforce and regulate AI use

Integration with Global Standards

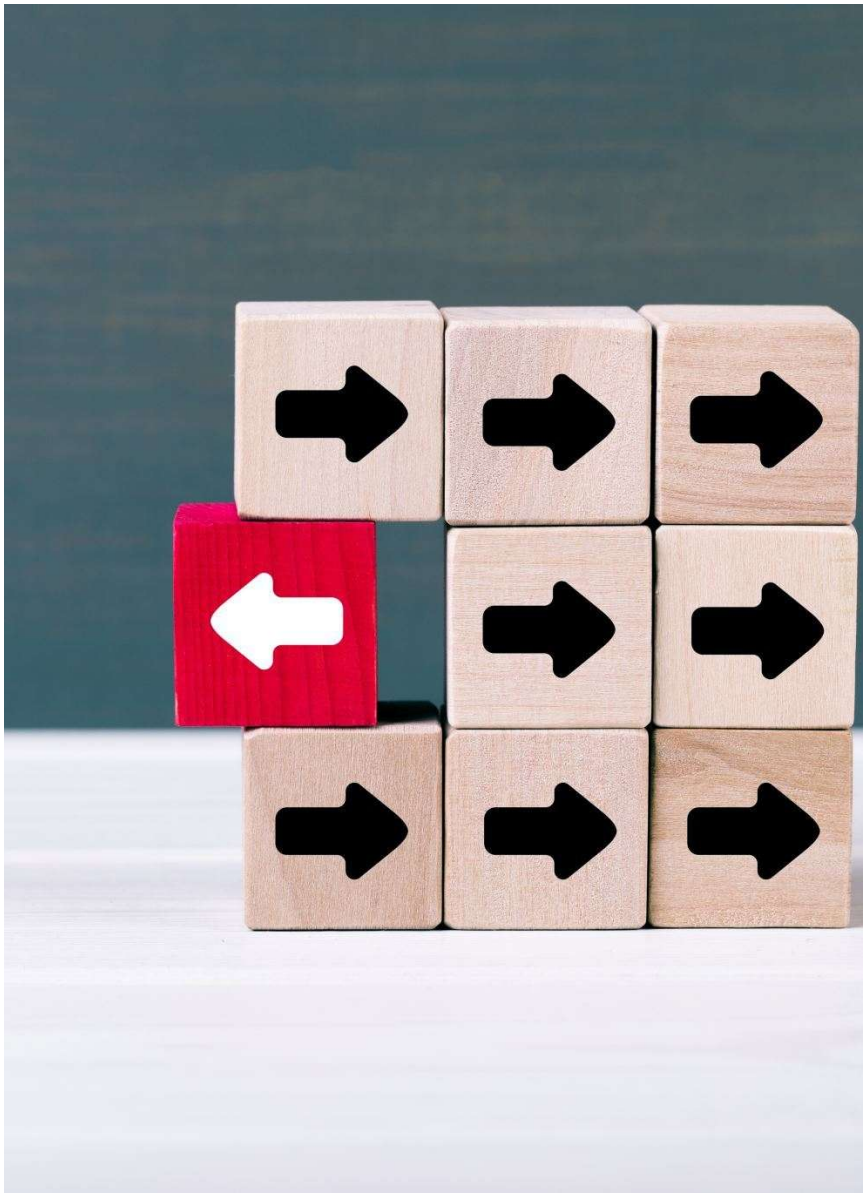
- Action:
  - Align national AI standards with international best practices.
    - We will look at other major agricultural countries policies as well as collaborate with major powers and the aforementioned countries to implement the best practices and have a comprehensive international network
  - Actively participate in and contribute to global initiatives shaping ethical guidelines.
    - Have a representee in every meeting on the UN board and sub-boards
    - They will work with government officials
    - This will also be used to foster relationships with technoloigcal powers

AI in government and Public Services

- Action:
  - Implement AI applications in public services, ensuring transparency, efficiency, and accountability.
    - With the decisions being transparent the public will accept these decisions more
    - Bad decisions have the ability to be vetoed within 5 years by the signature from the president
  - Develop a citizen-centric AI platform for personalized and responsive service delivery.

Implementation Strategy

- 3 phases:
  - Short Term
  - Medium Term
  - Long Term



Short Term (12 Years)

01

Develop AI education curriculum and pilot in selected schools.

- Get children thinking about future careers in AI
- This will also make AI synonymous with society once these children reach adult age

02

Establish a task force for drafting AI ethics and data governance guidelines.

- This promotes ever evolving innovation and learning from the government end of things

Medium Term (35+ Years)

Roll out AI education programs across schools and vocational training centers.

The further implementation will train the young and older generations

The older generations who are illiterate in this field will learn and the literate will be fostered to learn

Implement pilot projects for AI applications in public services.

If successful the public will be the first to notice and accept AI quicker

Long Term (60+ Years)

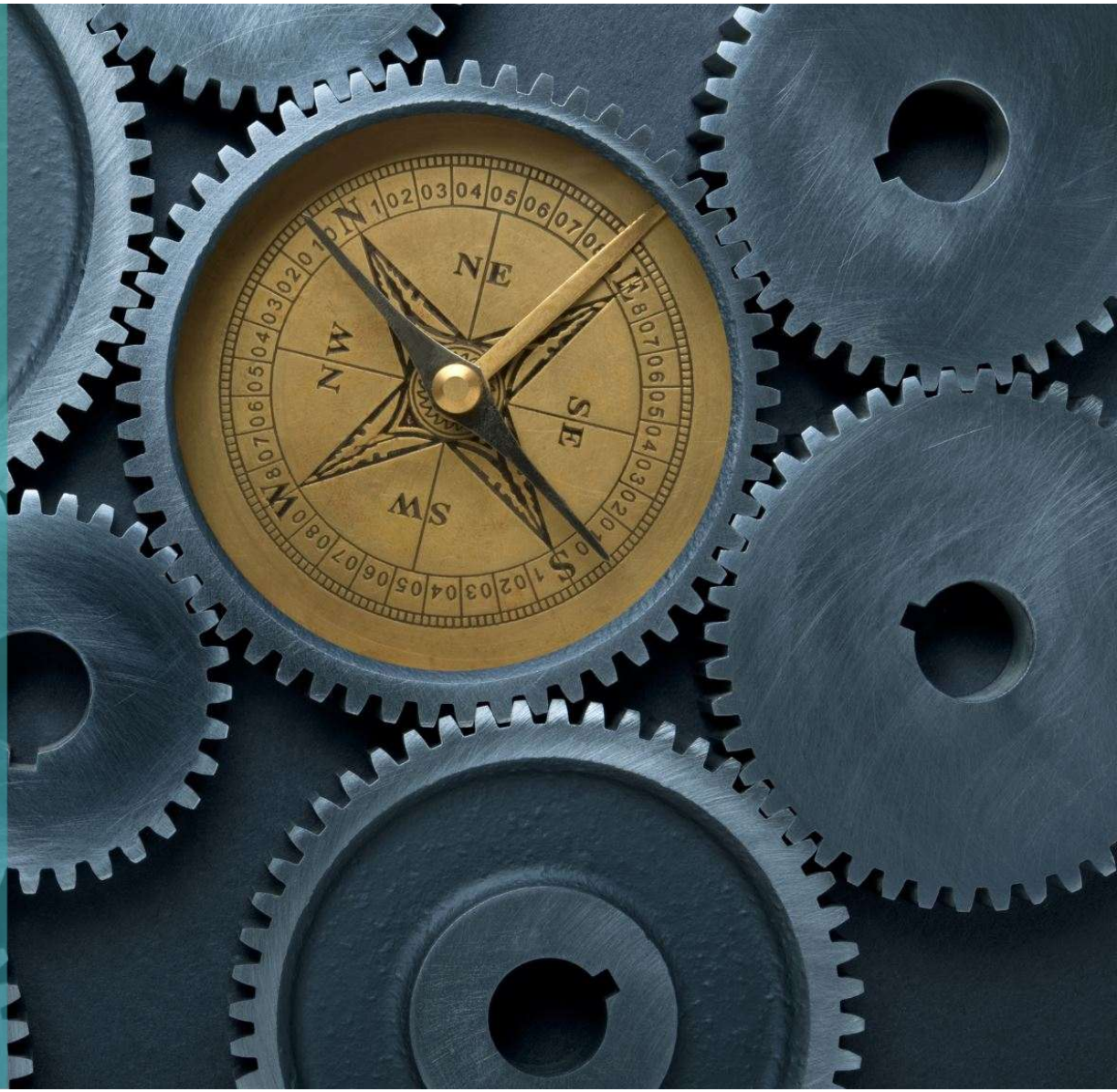
Strengthen international collaborations with AI research institutions.

- These institutions will be composed of international students and professors with the sole purpose of "achieving tommorow"
- Only top students who are selected by a rigorous interview process
  - There will 5 applicants from every school in Russeleiente
  - Only 2 will be selected to go
- Funding will be made in collaboration with agreeing parties and will begin construction in 40 years and be functional in 55 –60 years

Evaluate and update AI policies based on technological advancements and societal needs.

- An evaluation board will be made and get together every 6 months to evaluate progress in AI and give a brief to government officaials
- This will ensure constant innovation and learning in conjunction will the previous policies stated

Monitoring & Evaluation Mechanisms:



Three Ways

Establish an independent AI regulatory body for ongoing evaluation.

Conduct periodic audits of AI implementations across sectors.

Solicit public feedback through regular surveys on the impact of AI policies.

Public Engagement

Three Ideas

Establish citizen forums for inclusive policy discussions.

Conduct regular town hall meetings to gather diverse perspectives.

Facilitate collaboration with NGOs to ensure the representation of marginalized communities.

International Collaboration and Diplomacy

Future Implementation

Engage in bilateral agreements for AI collaboration.

Contribute actively to international forums and initiatives shaping global AI governance.

Establish partnerships with multinational corporations for technology exchange.