

CLUB OF PANAMA





TUM CAMPUS HEILBRONN

SUSTAINABILITY AGENDA FOR THE DIGITAL AGE – CLUB OF PANAMA

1. Sustainability for the digital age has to be addressed in an interdisciplinary way



| Energy transformation and climate protection demand AI-driven and DLT-supported transaction platforms

- | Create new deal sets for hydrogen-based value chains between the Americas and the EU
- | Install AI-tools for carbon monitoring and sustainability controlling
- | ...

| New Sustainability Science Hubs demand Management + Technology + Information Engineering + Data Science

2. Sustainability management is ecosystem management

- | **Success of energy transformation, sustainability agendas and digital transformation happens at interfaces**
 - | Organize the hidden success factors of energy and industry transformation in logistics, education, management...
 - | Build up cyber-physical ecosystems for resilient regions and smart, sustainable city networks

- | **Sustainability management of socio-economic ecosystems has to be human-centric**
 - | Test future-of-work scenarios and support sustainable job creation
 - | Focus on new leadership skills

3. Institutional Innovation is missing

- | „Club of Panama“ to turn Panama into a global hub and testbed for urban and energy-related sustainability technologies in the digital age
- | Embedded into a global network (Germany – EU – World) for interdisciplinary development of living labs and regulatory sandboxes
- | Including bottom-up students` networks with a public mandate to organize opportunities for the young generation

4. Club of Panama - Mission

- | Task force to test and establish new standards and joint approaches in managing, implementing and operating sustainable, AI-supported pilot projects in areas such as
 - | Energy transformation,
 - | Digital transformation,
 - | Urban and rural development technologies, in particular construction, transportation, urban management, spatial planning,
 - | Culture, arts and social activities.

5. Club of Panama - Structure

- | Organized as a lean, public / public-private „special purpose vehicle“ with a high-level community of think tank members (50% Panama, 50% international)
- | TUM Campus Heilbronn as a corresponding science hub in Germany – later to be enlarged to other European and worldwide technology hot spots
- | Clearing house for ideas, technology scouting and start-up promotion
- | Hosting new types of (DLT-based) transaction platforms, e.g. for green hydrogen, IP etc.

6. 2nd Pillar: Erasmus-Café Panama

- | A cyber-physical Panama-EU meeting point for highly talented students and young high-potentials
- | Supporting bottom-up initiatives in the areas of social entrepreneurship, well-being, sustainable communities, culture, arts and design thinking, connected to sustainable technologies
- | three “Calls for Action” each year, promoting new ideas from all over the world, which could be piloted in Panama
- | Establishing a network of spin-off clubs all over the EU, acting as a regulatory sandbox for new socio-economic transaction platforms

7. Organization – example

- | Think Tank composed by up to 12 committed individuals, representing business, science, public administration, culture and arts as well as outstanding social achievements. They meet 3 times a year in Panama and 1 time in Heilbronn / WEF / COP
- | A working team, including stakeholder representatives, students, scientists and managers elaborates pilot missions in the chosen core areas. The acting think tank members decide about the pilot projects to be realized each year / give proposals to Panama government
- | A small, international management team + General Secretary organizes both the Club of Panama and Erasmus Café

Output – Focus Areas 2024

1. Panama as a Green Hydrogen Hub = **Panama as a Sustainable Energy and Green Petrochemisty Hub**: decentralized structure to produce Sustainable Ship Fuel and Sustainable Aviation Fuel; massive landing program for European chemical industry; global competence cluster for green energy transactions
2. Establishment of a **Panama SDG Hub** with UN Habitat and others: Concentration of Circular Economy Impact Investments; new standards in carbon trading and carbon monitoring
3. Panama as a pilot region for Central American youth empowerment and international creative industry by being the **Erasmus Café Hub for the whole region**

Club of Panama



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