

IDENTIFICATION OF ADVANCED HUMAN CAPITAL TRAINING DEMANDS PRIORITY AREAS FOR PARAGUAY

SUMMARY

STRATEGIC AREAS OF INTERINSTITUTIONAL INTEREST

- 1. Data Science and Information and Communication Technologies (ICT)** – Including, among other aspects, data analysis, cybersecurity, digitalization, and the use of technologies for processes in various areas (of interest to public and private institutions).
- 2. Research with a focus on Science, Technology, and Innovation (STI).**
- 3. Specific Regulatory Frameworks** (of interest to public and private institutions with particular requirements regarding training topics).
- 4. Quality Management, Quality Certification, and Management Control** (of interest to public and private institutions).
- 5. Project Management** (of interest to public and private institutions).
- 6. Environmental Management – A cross-cutting issue for all sectors** (of interest to public and private institutions).

STRATEGIC AREAS OF SPECIFIC (MISSION-RELATED) INTEREST

A. PUBLIC MANAGEMENT

- 1. Public Administration and Management**
- 2. Innovation and Public Administration – Procurement – Budget Management – Human Resources Management**
- 3. Quality in Public Policies**
- 4. Anti-Corruption, Risk Management, and Integrity**

B. PRODUCTIVE SECTOR (FOCUS ON AGRICULTURE AND LIVESTOCK)

- 1. Productivity, Innovation, Automation, and Industrialization of the Agricultural Sector**
- 2. Plant Science and Phytosanitary Protection**
- 3. Animal Production, Nutrition, and Health**
- 4. Management, utilization, and conservation of natural resources**

C. INDUSTRIAL, COMMERCIAL, AND SERVICE DEVELOPMENT & INDUSTRIAL POLICY DEVELOPMENT

- 1. Engineering for industrial development**
- 2. innovation, digitalization, and automation in the industrial, commercial, and service sectors**
- 3. Strategic and technological management of the Corporate and Cooperative Sectors**
- 4. Employment and Development**
- 5. Industrial productivity and quality**
- 6. Strategic planning with a forward-looking approach**
- 7. Evaluation and monitoring of industrial policy (Ministry of Industry and Commerce / National System of Labor Training – SINAFOCAL)**
- 8. Training of Trainers in areas of interest for the industrial sector (Capacity building for the National Service for Professional Promotion – SNPP to train instructors in a cascading model on industry-related topics)**

D. PUBLIC POLICIES FOR INFRASTRUCTURE, LOGISTICS/TRANSPORT, AND ENERGY DEVELOPMENT

- 1. Territorial planning and urban development**
- 2. Infrastructure: Planning – Infrastructure Projects – Water and Sanitation**
- 3. Logistics and Transport**
- 4. Energy Management**
- 5. Aerospace Management**

E. INFORMATION AND COMMUNICATION TECHNOLOGY POLICY DEVELOPMENT

- 1. Digital Transformation and Technology Management**
- 2. Software Development and Agile Methodologies**
- 3. Fintech and Digital Financial Services**
- 4. Cybersecurity and Data Protection**
- 5. Telecommunications and Digital Regulation**

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| F. DEVELOPMENT OF NATIONAL SCIENCE, TECHNOLOGY, AND INNOVATION POLICY |
| F1. STI AND BUSINESS DEVELOPMENT |
| <ol style="list-style-type: none"> 1. Business Models and validation of business models 2. Business creation, management, and innovation 3. Financing and legal aspects of Startups 4. Acceleration and knowledge transfer 5. Training of Trainers for entrepreneurial growth |
| F2. EDUCATION IN SCIENCE, TECHNOLOGY, AND INNOVATION (STI) |
| <ol style="list-style-type: none"> 1. Management, Innovation, Curriculum and Instructional Design of STI Educational Programs 2. Management and Evaluation of STI Public Policies 3. Communication and Public Engagement in STI |
| G. CLINICAL AND HEALTHCARE ECOSYSTEM |
| <ol style="list-style-type: none"> 1. Healthcare institution management 2. Mental Health 3. Nutrition and health 4. Core medical specialties and other medical specialties 5. Neurosciences and Biomedical Sciences 6. Training of Trainers for educational programs in the healthcare sector |
| H. DEVELOPMENT OF THE NATIONAL DEFENSE POLICY |
| <ol style="list-style-type: none"> 1. Forensic Science, Organized Crime Combat, and Intelligence Management from a Risk Management Perspective 2. Prevention of Drug Use, Treatment, and Rehabilitation for Social Reintegration (Pillars of the Action Plan Against Drug Abuse) 3. Combatting Drug Trafficking (Pillars of the Action Plan Against Drug Abuse) |
| I. DEVELOPMENT OF THE CREATIVE AND CULTURAL INDUSTRY |
| <ol style="list-style-type: none"> 1. Cultural Management and Administration 2. Training for Teaching and Research 3. Communication, Cultural Marketing, and Commercialization 4. Cultural Policies and Cultural Rights 5. Sustainability and Social Impact Management 6. Technical Issues 7. Creative Economy and Financing 8. Library Science and promoting reading 9. Innovation and Creative Entrepreneurship 10. Cultural Management and Administration |
| J. REGIONAL PRODUCTIVE DEVELOPMENT |
| <ol style="list-style-type: none"> 1. Science, Technology, and Engineering 2. Innovation and Industrial Production 3. Economics and Business Sciences 4. Environment, Agriculture, and Sustainability 5. Health and Technology 6. Education, Research, and Technology 7. Law and Technology 8. Tourism and Urban Development |

DISCLAIMER: The original document is in Spanish, authored by Mercedes Argaña as part of the “Consultoría para llevar a cabo los talleres y sistematización para la identificación de demandas prioritarias de Capital Humano Avanzado (CHA) en el ámbito público y privado” under Loan Agreement IDB No. 4895/OC-PR (PR-L1157) in December 2024. Translated by Belén González in February 2025. Any errors are the responsibility of the translator.