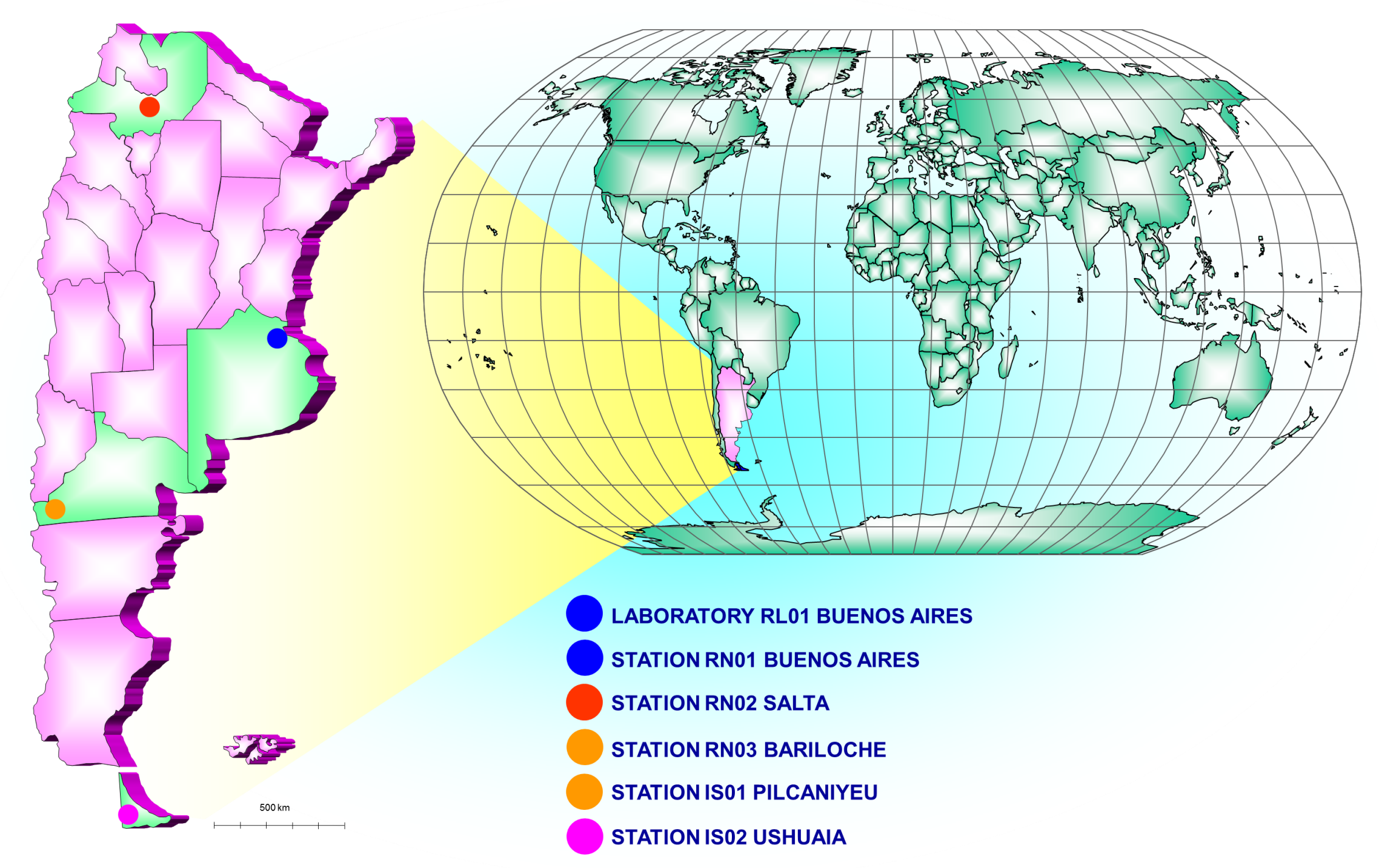
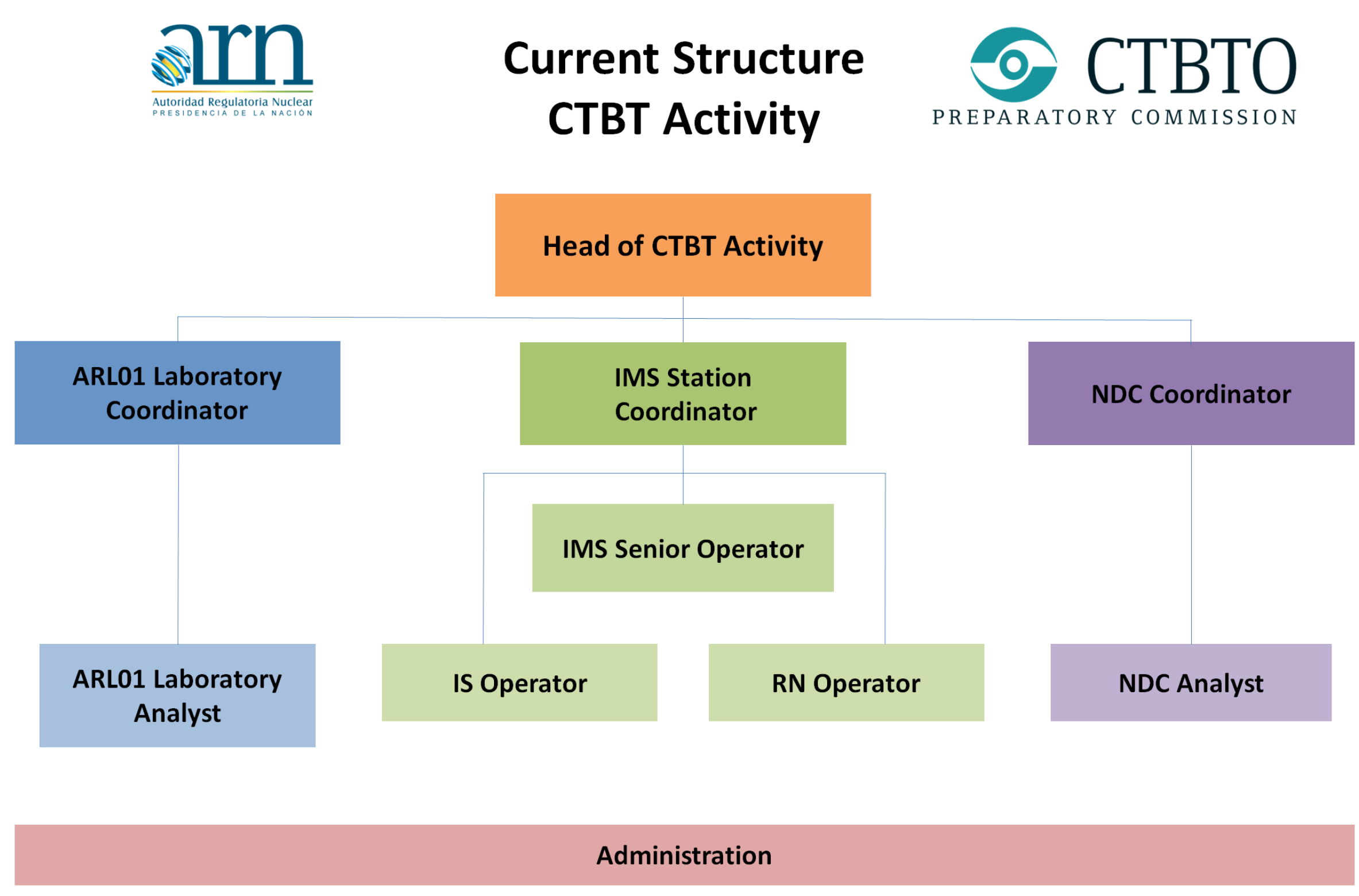


The Nuclear Regulatory Authority is the Argentine national body dedicated to the regulation of nuclear activity in the areas of radiological and nuclear safety, safeguards and non-proliferation, and protection and physical safety. The ARN acts as a "point of contact" before the CTBTO and is responsible for the operation and maintenance of radionuclide and infrasound monitoring stations and the laboratory that the Argentine National Government undertook to install in its territory. The CTBT Activity is part of the Nonproliferation Policies and Institutional Affairs Department.



The CTBT Activity is in charge of three stations of the International Monitoring System (IMS) already established and certified. Two new IMS stations: RN02 for radionuclide monitoring in Salta and IS01 for infrasound monitoring in Rio Negro will be built during the period 2019/2020 to complete the Argentine Network under ARN responsibility. An update of the existing IMS stations to latest technologies, RN01 Buenos Aires and IS02 Tierra del Fuego, is expected in the near future. The Argentine National Data Center (NDC) is under development.



## IMS Stations in Argentina under ARN Responsibility

	Manual Radionuclide Station with NG Capability Certified on September 29, 2002	
ARP01 Buenos Aires		
	Manual Radionuclide Station. Certified on December 21, 2004	
ARP03 Rio Negro		
	5 Elements Infrasound Station. Certified on August 23, 2006	
IS02 Tierra del Fuego		
	8 Elements Infrasound Station Construction of IS01 Station begun in March 2019, it is located in Pilcaniyeu town in Rio Negro.	
IS01 Rio Negro		
	Manual Radionuclide Station. Construction of ARP02 Station is expected between end of 2019 beginning of 2020. ARP02 Station will be located in Salta International Airport.	
ARP02 Salta		

The CTBT Activity manages and coordinates the operation and maintenance of the IMS stations from ARN Headquarters located in Buenos Aires. Our Staff is trained in RN and Infrasound Station daily operation and preventive/corrective maintenance. The maintenance team is formed according to the task to be developed, level of training and technical capability. And remain in passive guard, in case any problem occurs during non-working hours and weekends. Local Operators from stations send daily reports to HQ with the status of the operation and inform situations out of the ordinary.

## Operator Profile Training Development

**Training in daily Operation.**  
**Radioprotection Training.**  
**English intermediate level .**  
**Quality management.**

**The Treaty.**  
**IRS Reporting Tool.**  
**State Of Health Tool.**  
**Basic Spectrometry.**  
**CTBTO KTP E-Learning Library (SO).**  
**Technical Training for Station Operators Of Manual Radionuclide Stations.**  
**Technical Training for Radionuclide Stations Operators with Noble gas Equipment.**  
**Technical Training Programme for Radionuclide Station Operators with HpGe Detectors Systems.**  
**Active collaboration in Preventive/corrective maintenance.**

**Overall understanding of the Four IMS Technologies.**  
**Civil and scientific applications of IMS Data.**  
**CTBTO KTP E-Learning Library (NDC).**  
**Training on NDC Capacity Building: Access and Analysis Of Waveform and Radionuclide IMS Data And IDC Products.**  
**Technical Training for PKI Operators for RN And Waveform Stations.**  
**Be an active collaborator of the CTBTO community sharing experiences and findings**

This training plan aims at any person who starts working as operator of the IMS stations without discriminating the background that the person has.

The ARN provides training courses for administrative and technical staff and the CTBTO offers a distance training platform with an E-Learning library and training courses for Station Operators, NDC Analysts and factory practices with specific equipment. Some of these training courses are mandatory while others are subject to availability.

Our next step (already in process) is the construction of the NDC of Radionuclides and infrasound. The availability of equipment and the training of analysts is our limiting factor. Our first objective is to analyze events and work together with other NDCs in the region.

## Bidding Processes and Equipment Shipment

As the ARN is a public body we must follow the purchasing process of the National State. This involves going through more than 30 stages of the process, long waiting times and high costs to purchase equipment or a service.

The acquisition of equipment or services takes around 3 to 6 months, and can fail during the final stages of the purchase process due to various factors. This causes the starting over of the process.

Example: the bidding process for the one-year supply of liquid nitrogen for the operation of HpGe detectors started the process 6 months before ending the previous one.

When a certain item or equipment is impossible to acquire or the local cost of acquisition far exceeds the cost of the same equipment either USA or Europe, we suggest to the CTBTO the possibility that they provide it.

The shipping process for equipment takes around 45 working days and requires some documentation to request the diplomatic franchise, Tax Exemption and the customs clearance.

- Letter of Donation
- Commercial Invoice
- Packing List
- AWB
- A designee Custom Agent

It is possible, but not recommended due to high tax costs and customs procedures, to ship by private couriers.

This method is evaluated as an emergency possibility.

## Quality Management

CTBT Activity works along with the Quality Department of ARN who perform at least 2 internal audit visits per year and provide quality management training courses for station staff.

All the IMS stations that depend on the ARN are aligned to the ISO 9001 standard and certified by IRAM.

**Thanks For Your Time !!!**

Marcelo A. Fernández  
 IMS Station Coordinator  
 ARN Argentina