



**INCCI  
HAERZ  
ZENTER**  
institut national  
de chirurgie  
cardiaque et  
de cardiologie  
interventionnelle



**Ultrasound Project for the Mongolian Provinces  
Oulan-Bator MONGOLIA**



## Ultrasound Project for the Mongolian Provinces

### *Introduction:*

For several years, Haerzzenter Luxembourg and Lux-Development have been supporting the Mongolian Ministry of Health in the development of cardiac surgery and cardiology structures in Mongolia.

In the course of this support, a project for the diagnosis of heart diseases by means of ultrasound examination could now be implemented.

### *Objective of the project:*

In this project an existing telemedicine network from peripheral echocardiographic workstations shall be completed.

In the existent telemedicine network, cardiologic patients are examined in their provincial town. Afterwards, the results are discussed between the physician in the provincial town and a specialist in UB.

The patient need not travel the long distance to UB, sometimes more than 1000 km, this will save time between diagnosis and treatment, which could be started early.

*Project costs: 700.000 Euro*

*Duration of the project: 1-2018-10-2018*

### *Tender Specification:*

Specification of Cardiovascular Ultrasound for the Mongolian Provinces.

Scope:

- Perform high quality cardiac ultrasound, allowing the analysis and diagnosis of various cardiovascular diseases, including valvulopathies, heart disease and vascular diseases, in adults as well as children, newborns and fetuses.

- Allow recording and sending of images to a sharing network.

In this context, we propose ultrasound scanners whose characteristics are as follows:

- Ultrasound approved for use on the Mongolian market.

- This ultrasound system must be robust, mobile, lightweight, quickly available, without necessarily being portable, and allow physical archiving (DICOM etching or other).

- It must allow networking, (via wifi).

- Standard operating system

- Monitor (> 20 inches) LCD, high resolution, articulated arm.

- Possessing a keyboard.

- Minimum 3 ports for probes.

- Integrated shelves and storage drawers.



**INCCI  
HAERZ  
ZENTER**

institut national  
de chirurgie  
cardiaque et  
de cardiologie  
interventionnelle

- Swivel wheels with brake pedal.
- ECG.
- Availability of conventional imaging modes: 2D, TM and Doppler mode (PW, CW, color, tissue).
- High definition zoom of the real-time image or the frozen image, with the possibility of zooming the zoom.
- Availability of probes for vascular imaging: linear probes.
- Availability of probes for paediatric cardiac imaging.
- Availability of probes for trans-oesophageal cardiac imaging.
- Optional availability for 3D imaging, (ETT and ETO) optional.
- Quantization applications: measurement of longitudinal strain and automatic measurement of EF.
- Optional 3D applications.

