



MARTINIQUE UNIVERSITY HOSPITAL

DATA PROCESSING FOR EMERGENCY
MEDICINE

Context : A large scale departmental computing project ready to be deployed : PFR S@nté

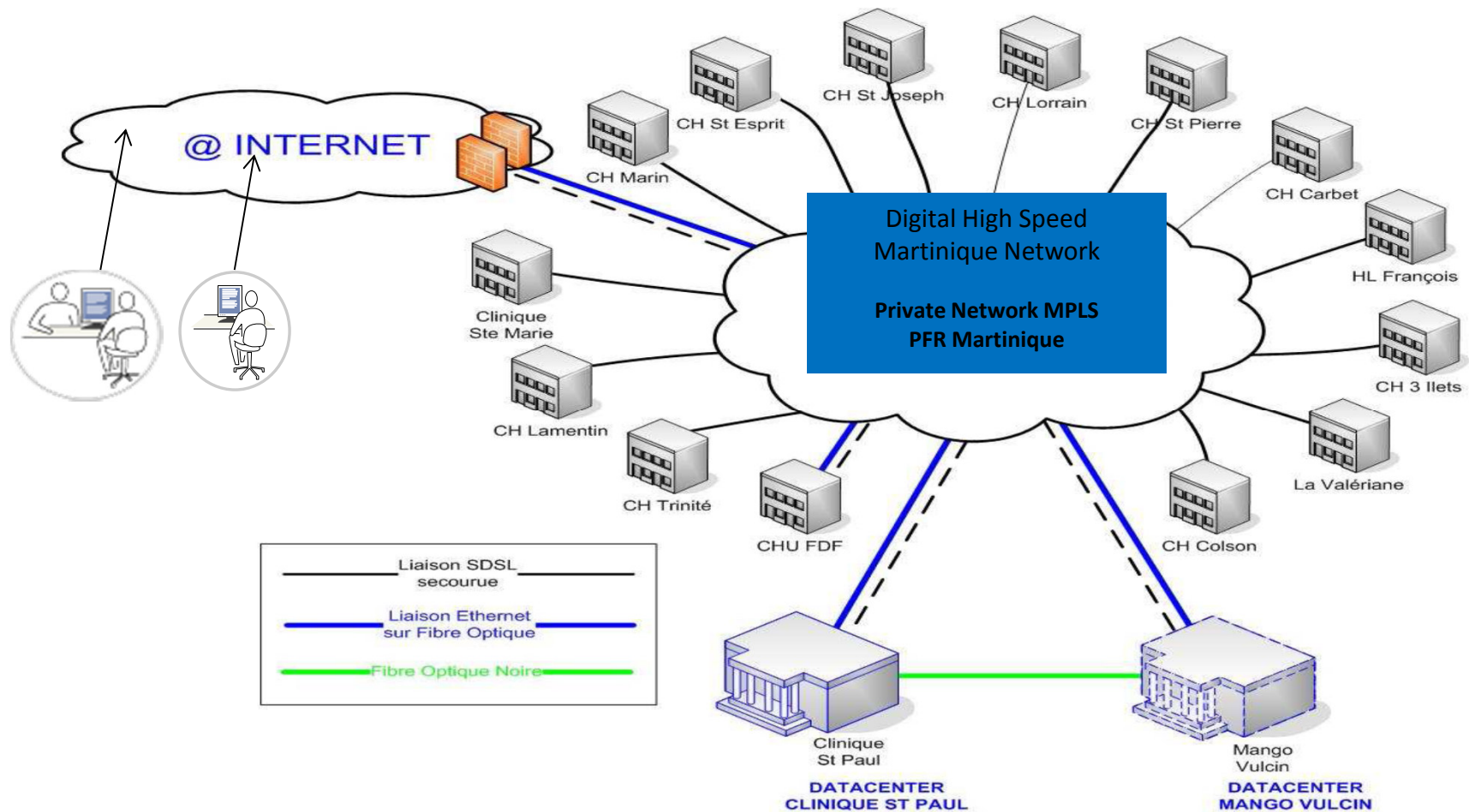
- A medical file common to all health actors in Martinique in order to :
 - Improve the management of the patient
 - Organize and coordinate the patient's journey between health operators
 - GPs
 - Health facilities
 - Health networks
 - Exchange and share patient's informations safely

ONGOING : A department-wide IT project

A medical file common to all health actors in Martinique to:

- Improve the quality of healthcare for the patient
- Organize and coordinate the patient's healthcare between operators
 - GPs
 - Health facilities
 - Health networks
- Exchange and share patient's informations safely

ORGANISATION and Network Security



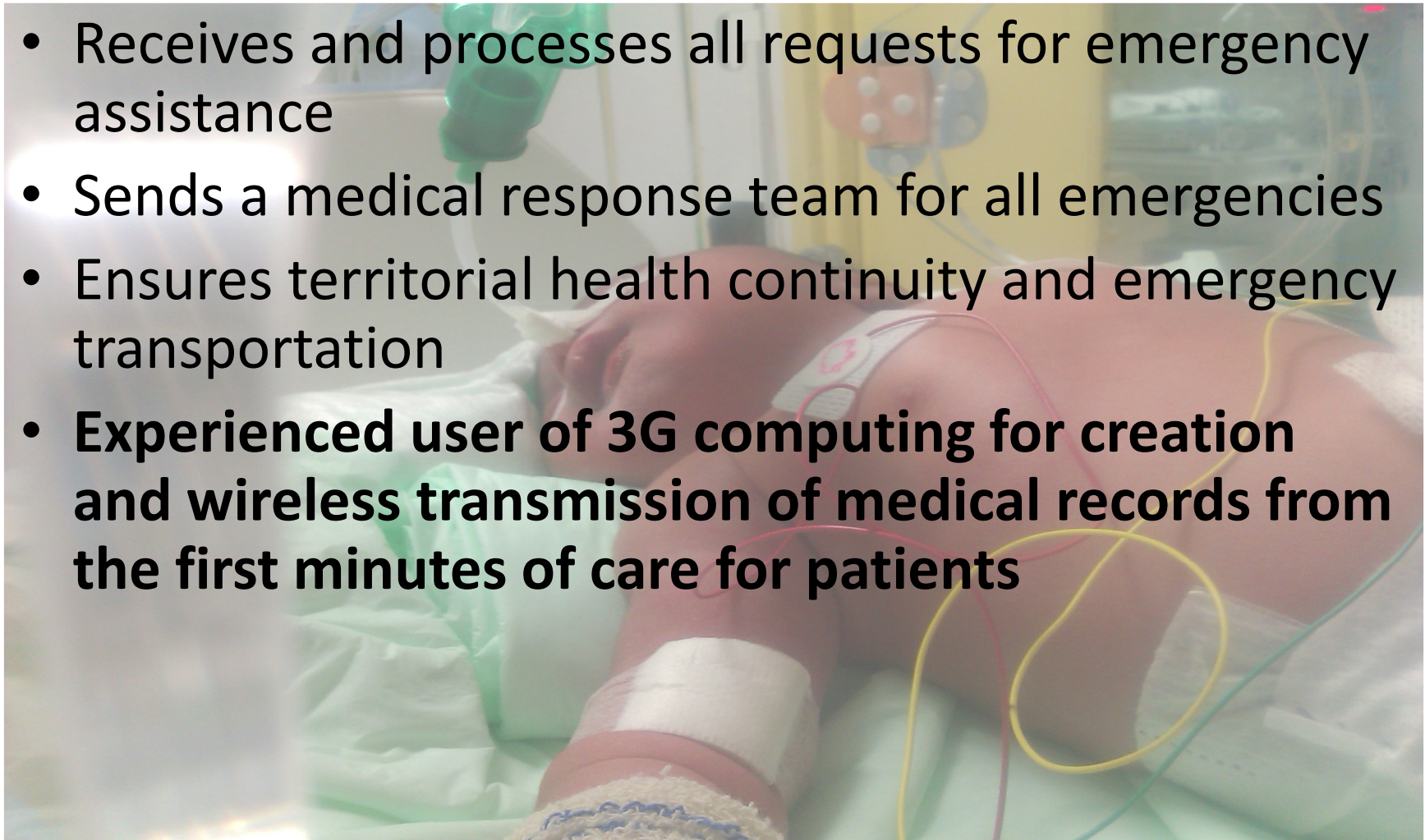
Emergency Medicine at the University Hospital in MARTINIQUE : A CRUCIAL LINK

- A pre-hospital medicalization service for heavy interventions including outside the department (peripheral islands of the Caribbean).
- Reception service welcoming 35,000 emergency patients per year including 3,700 with life-threatening emergencies.
- A complete technical installation, an intensive care unit
- A team of 30 medical specialists
- A Regional Trauma Center



THE EMS : Call response center and pre-hospital interventions

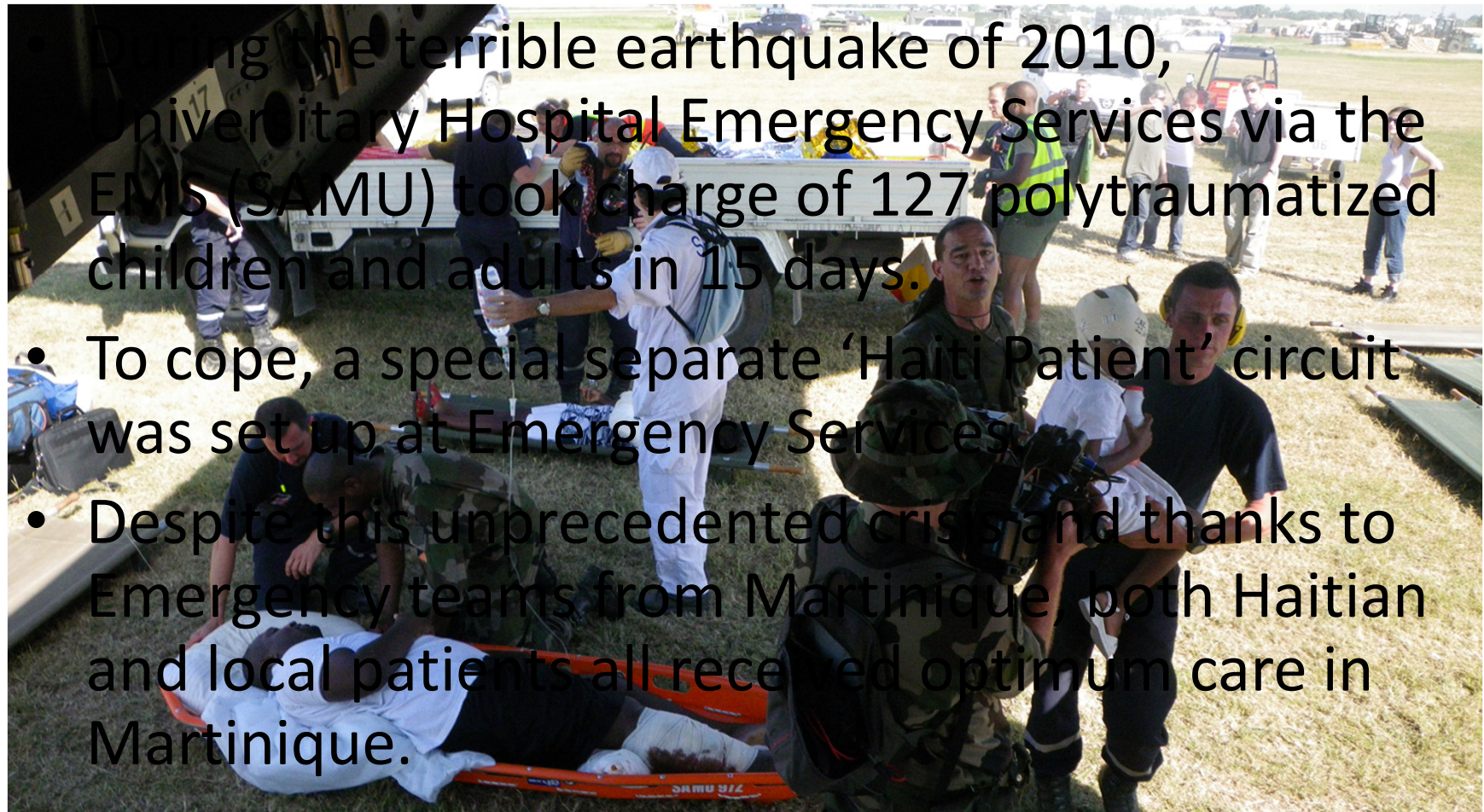
- Receives and processes all requests for emergency assistance
- Sends a medical response team for all emergencies
- Ensures territorial health continuity and emergency transportation
- **Experienced user of 3G computing for creation and wireless transmission of medical records from the first minutes of care for patients**



EXTRA-DEPARTMENTAL EMERGENCY SERVICES

- Subject to funding agreement, Martinique University Hospital emergency medical teams respond to all request for assistance from the Caribbean
- About 100 patients a year are brought into the hospital's Emergency Services from surrounding islands (St Lucia, Dominica, Haïti, the Grenadines etc) for specialized medical support.
- 2 recent examples : the Haïtian crisis of 2010 and the projection of a UMAC team to St Lucia in early March.

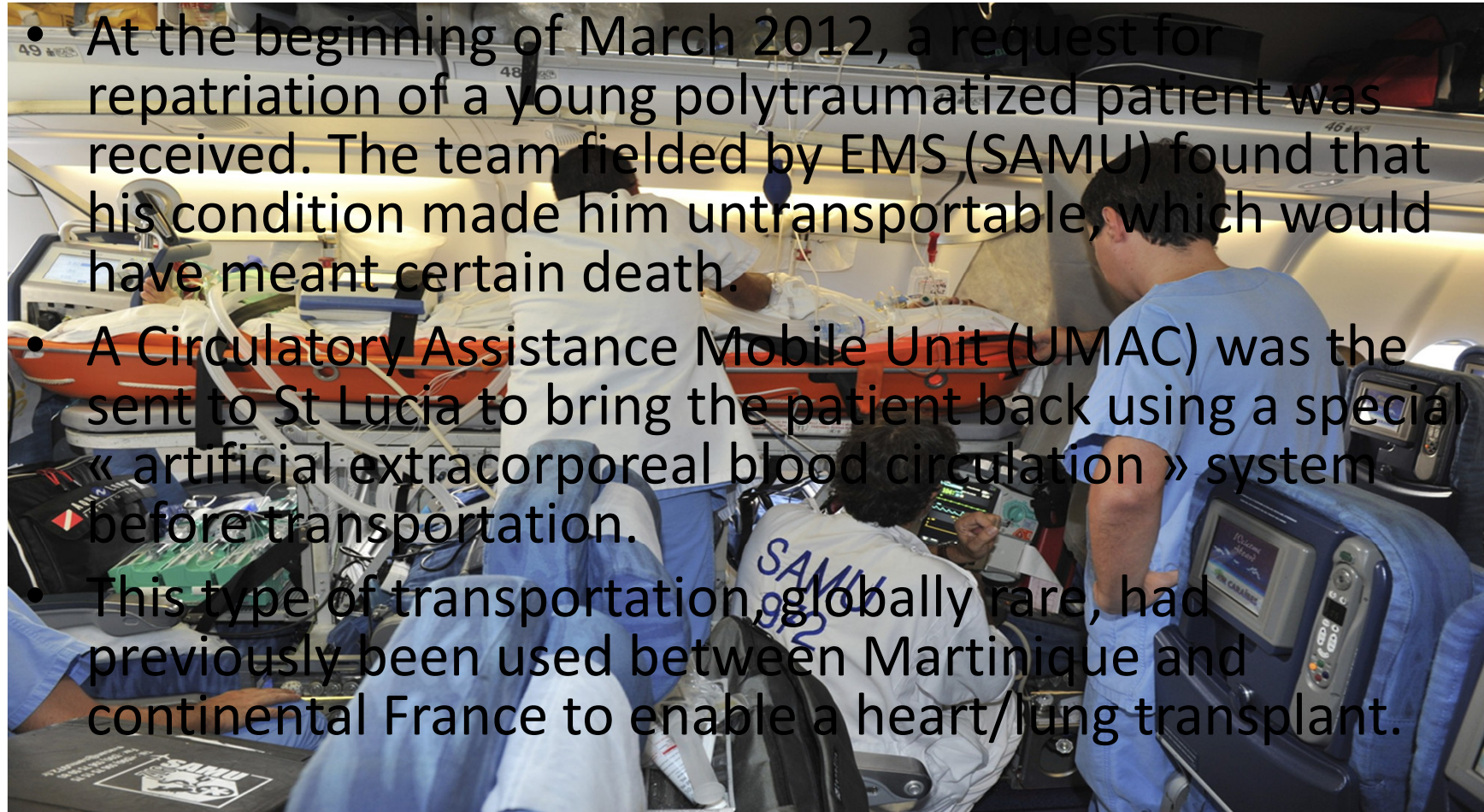
The Haitian Crisis



- During the terrible earthquake of 2010, University Hospital Emergency Services via the EMS (SAMU) took charge of 127 polytraumatized children and adults in 15 days.
- To cope, a special separate 'Haiti Patient' circuit was set up at Emergency Services.
- Despite this unprecedented crisis and thanks to Emergency teams from Martinique, both Haitian and local patients all received optimum care in Martinique.

An Exceptional Overseas Mission :

UMAC in St Lucia



- At the beginning of March 2012, a request for repatriation of a young polytraumatized patient was received. The team fielded by EMS (SAMU) found that his condition made him untransportable, which would have meant certain death.
- A Circulatory Assistance Mobile Unit (UMAC) was the sent to St Lucia to bring the patient back using a special « artificial extracorporeal blood circulation » system before transportation.
- This type of transportation, globally rare, had previously been used between Martinique and continental France to enable a heart/lung transplant.



The University Hospital Emergency Service : The Facts ?

- Receives patients transported by EMS (SAMU)
- Is the Departmental Trauma Center
- Supports five research projects in progress
- **BUT Is under-equipped in computer support resulting in delays and risk to patients.**
- **Is not technically equipped to host departmental computer project nor to receive patient records from EMS (SAMU)**
- **Must have powerful CPUs and mobile devices to ensure its efficiency in patient care and evolve into a formal center of excellence**

Estimated Budget for Computer Equipment needed by University Hospital Emergency Service

- 1x Mac Pro : Server proc Quad-Core Intel Xeon « Nehalem » à 2,8 GHz 4*2 Go 2 DD 1T: 3300 Euros
- 6 x iMac 21,5" 2,5 GHz Quad Intel Core I5 / 4 Go 1333 DDR3/ 500 Go/ Superdrive 8x DL/ Ati Radeon HD 6750M 512MB/ Airport / Bluetooth :7674 Euros
- 10xiPAD 3 Wifi 32 GONoir 4G + 10xCoque iPad 3 ultra resistente: 7688 Euros
- 3xInstallation et configuration of server : 423Euros
- **TOTAL TTC: 19 179 EUROS**



CONTACTS

- Dr Sophie Mainguy : Project Coordinator Emergency Services group / Project Manager “Emergency Service Software solution”
- Dr François Besnier/Head of Emergency Service Department
- Dr Christian LEONARD: Pole EMS (SAMU) Chief – Emergency – Anaesthetics - Resuscitation
- Mr Yvon Marie-Sainte GCS Director of SIS Martinique
- Dr Laurent VILLAIN-COQUET/Associate Medical Director of EMS (SAMU)