

EVENTO DE NETWORKING

## HEALTHCARE & PHOTONICS

TECNOLOGIAS FOTÓNICAS APLICADAS AL SECTOR HEALTHCARE

**26 MARZO/14**

09.45h-17.00h

**Parc Audiovisual  
de Catalunya**

Carretera BV-1274,  
Km.1, 08225 Terrassa  
(Barcelona)



**eConsultation Platforms:  
RTOC y Telecremats**

# Objectives

## Better Quality of Health Services

Improve expertise and specialization of health staff through remote support



Avoid transportation costs of human and material resources



Provide cost-effective tele-medicine solutions for remote support to cover health needs

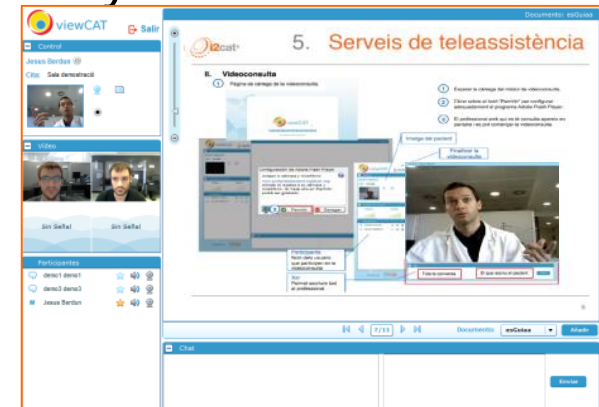
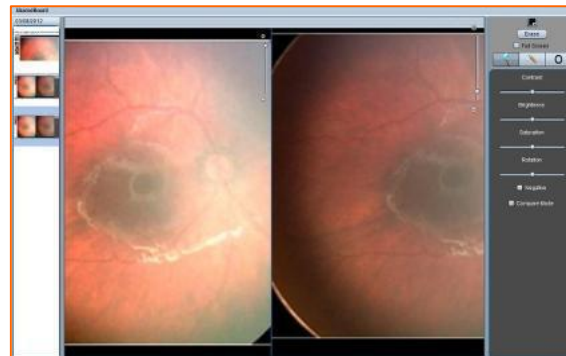
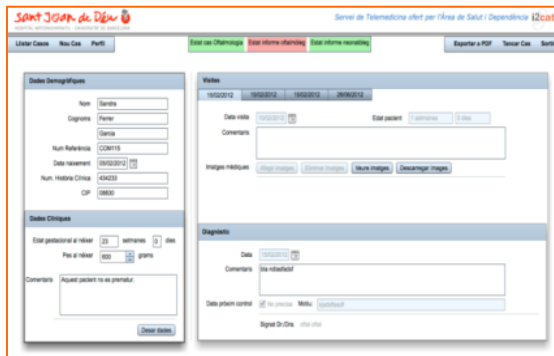


Scalability, reliability and interoperability of ICT solutions applied to the medical domain



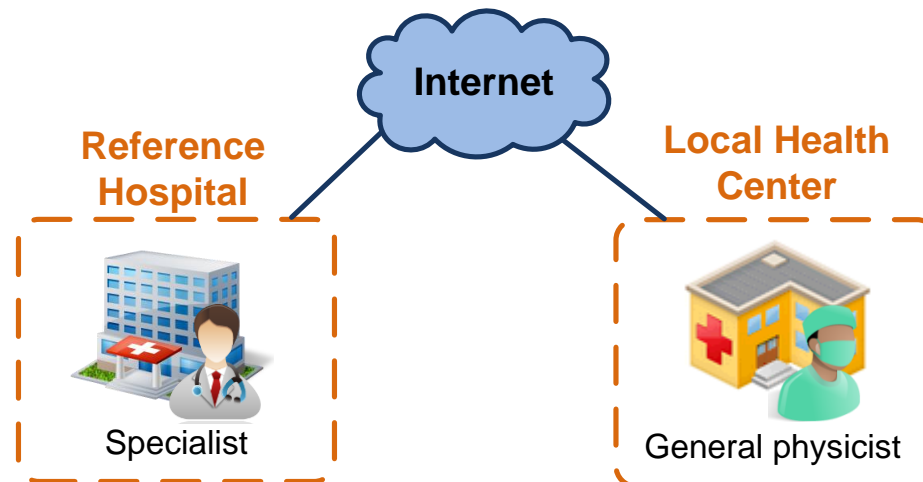
# eHealth Solutions

- ✓ Professional-to-Professional Scenarios
- ✓ Sharing and transmission of medical images (DICOM)
- ✓ Videoconferencing and HD Streaming
- ✓ Interoperability between Hospital Information Systems



## RTOC Description

- **RTOC Platform** is a secured web-based platform for remote diagnosis in ophthalmology based on a health reports repository
- The objective is to provide a **reporting tool** with **images associated to each patient case**
- Doctors in reference hospitals can provide **remote support to general physicists** in health centers from rural areas



# RTOC: Some images

Multi-language

Additional tools:  
- Videoconference  
- PDF export

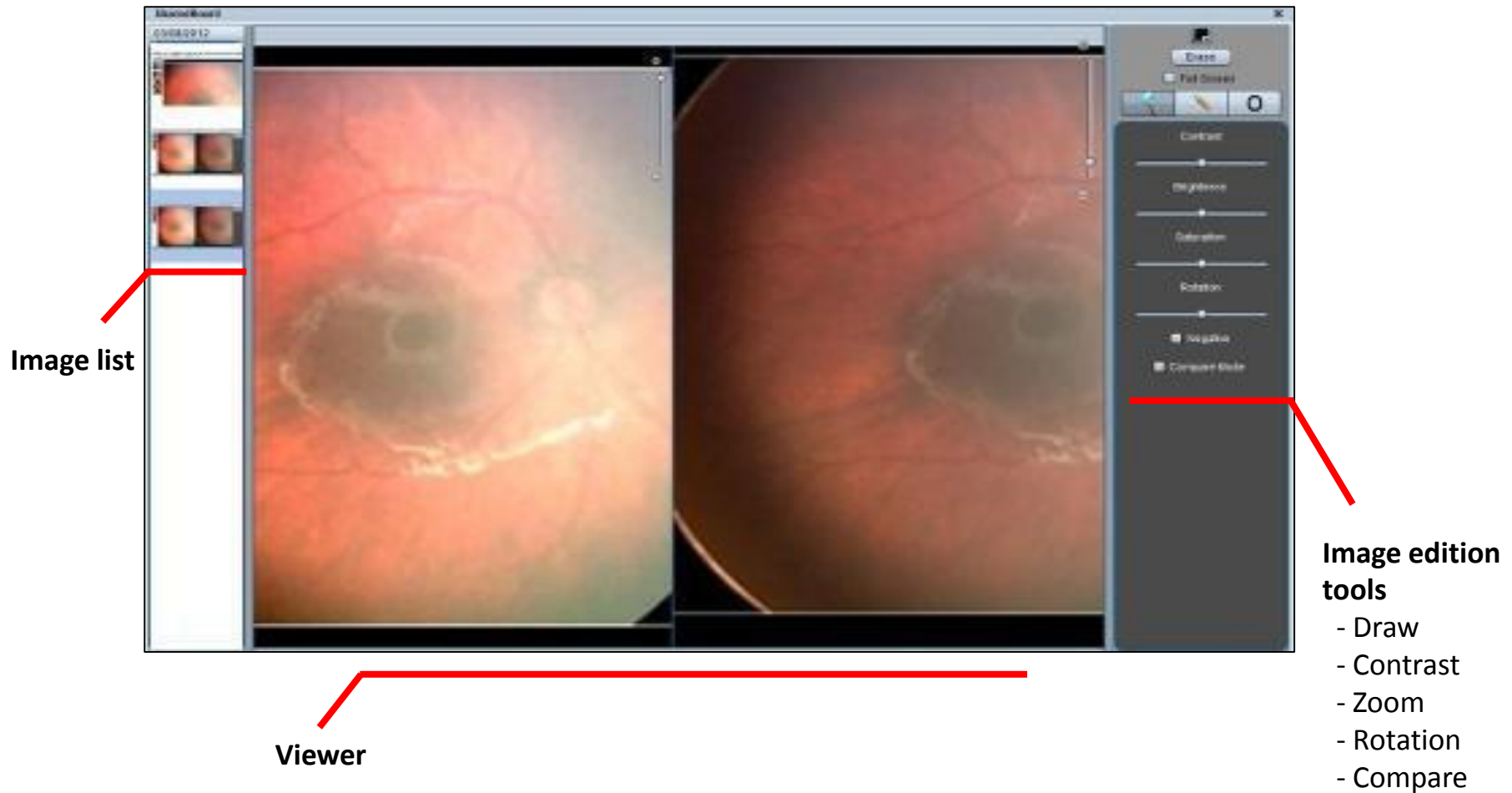
The screenshot shows a web application interface for patient management. At the top, there is a language selection menu with options for Castellano, Català, English, and Français (selected), along with a 'Cristina' user name and a 'Fermer la Session' button. The main navigation bar includes 'Llistar Casos', 'Nou Cas', 'Perfil', 'Cas l'Estat Ophthalmologie', 'Ophthalmologie Rapport de situation', 'Rapport sur l'état neonatòleg', 'Vidéo conférence', 'Exporter au format PDF', 'Affaire Fermer', and 'Sortir'. The interface is divided into several sections: 'Les données démographiques' (Anna, Rius, PT1, 04/06/2013, 3322211, 332211), 'Les données cliniques' (28 weeks, 400g, commentaris), 'Visites' (11/06/2013, 17/06/2013, 11/06/2013, 1 semaine, 0 journées, primera visita, Ajouter des images, Suppression d'images, Voir les images, Télécharger Images), and 'Diagnostic' (18/06/2013, Sembla que hi ha algun problema. Faltarà seguiment, 17/06/2013, Necessitat seguiment, Signé le Dr / Dr Cristina Serra). Red arrows point from external labels to these sections.

Image tools  
- View  
- Download  
- Upload  
- Erase

Diagnosis

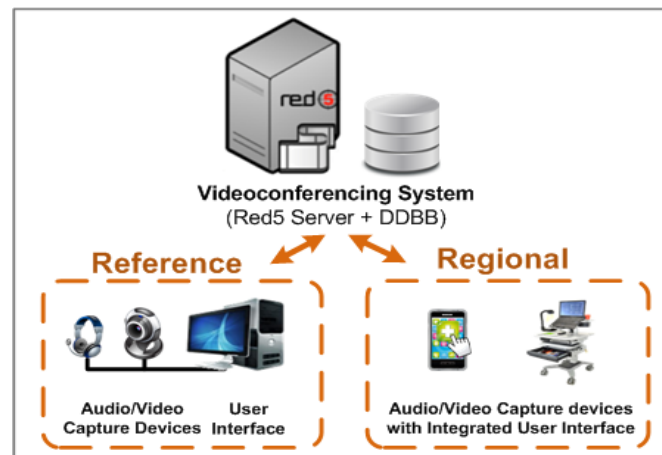
Patient Data

# RTOC: Some images

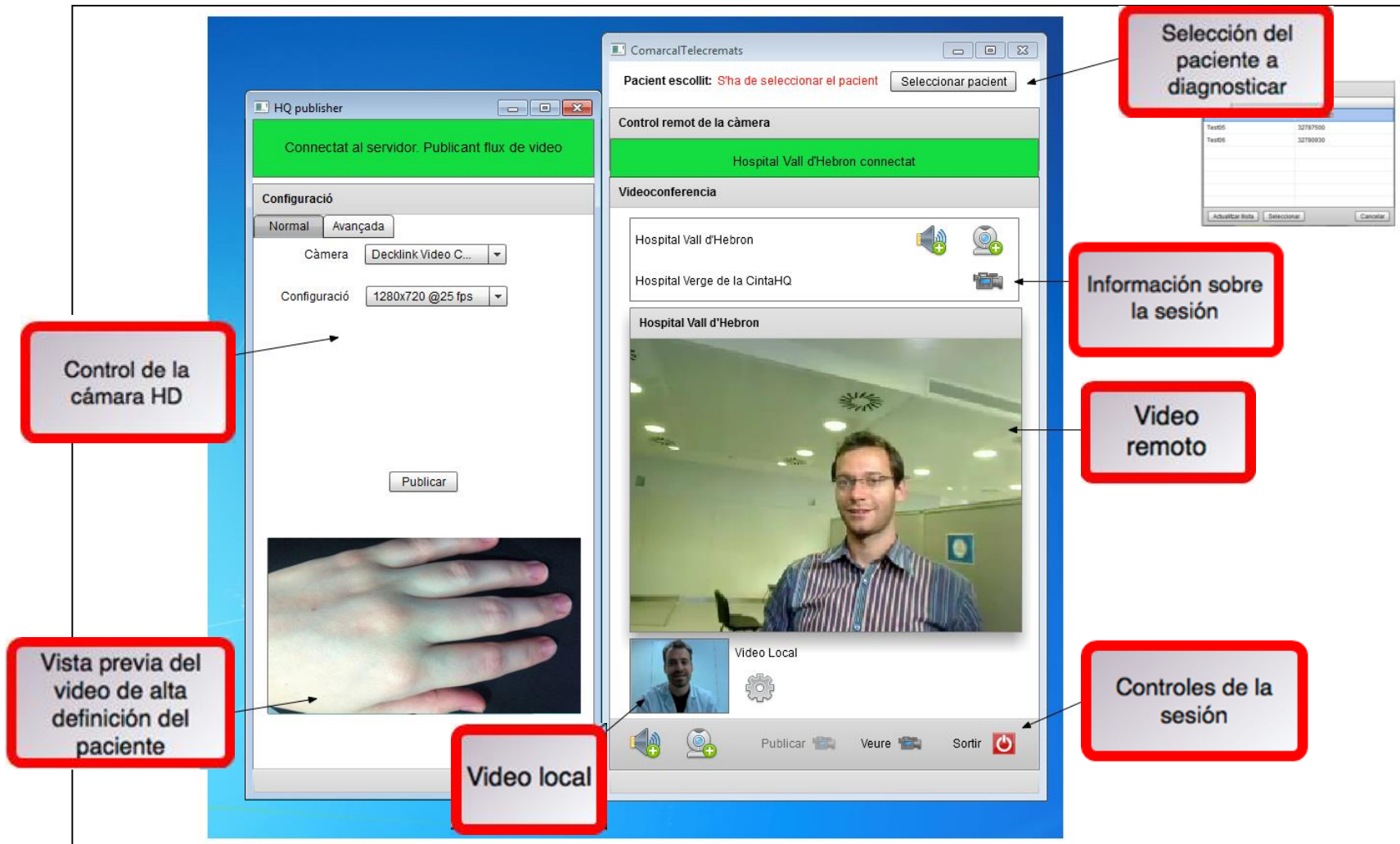


# Telecremats description

- **Telecremats Platform** is used in emergency scenarios, in which a reference hospital provides remote assistance to one or more distant health centres through Internet.
- This platform offers a secure, fast and **reliable communication environment for tele-diagnosis**, using a High Definition (HD) and Standard end-to-end **videoconference service**, complemented with remote camera control and imaging sharing functionality.



# Telecremats: Some images



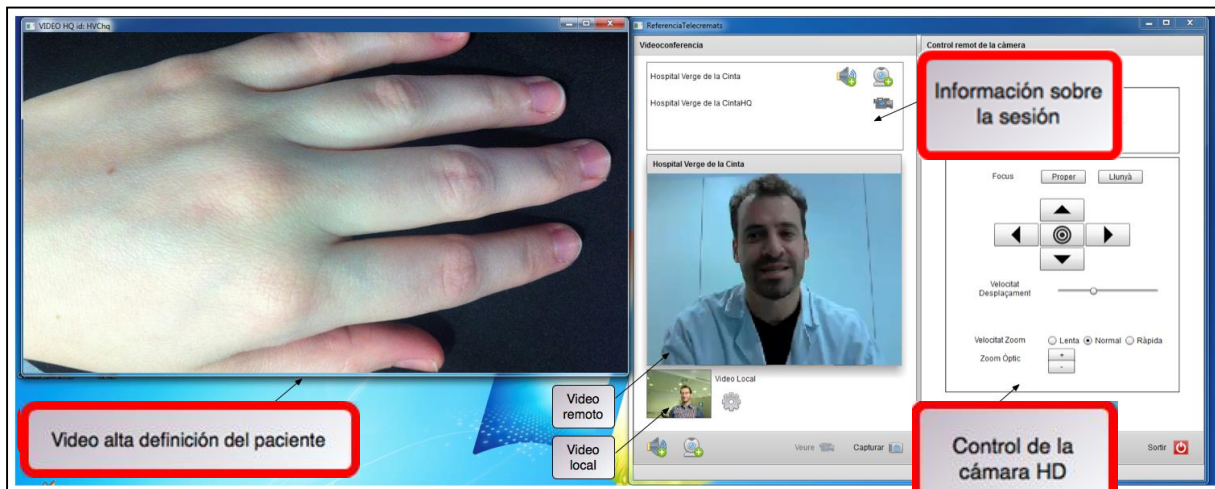
The screenshot displays the ComarcaTelecremats software interface, which is divided into several functional areas:

- HQ publisher:** A window for video streaming configuration. It includes a status bar "Connectat al servidor. Publicant flux de video", a "Configuració" section with tabs for "Normal" and "Avançada", and a "Publicar" button. A preview window shows a hand being examined.
- Control remot de la càmera:** A section for remote camera control, currently showing "Hospital Vall d'Hebron connectat".
- Videokonferència:** The main video conference area, showing a large video feed of a patient and a smaller "Video Local" feed of the operator. It includes icons for audio and video settings.
- Control de la càmera HD:** A red box pointing to the camera configuration options in the HQ publisher window.
- Vista previa del video de alta definició del pacient:** A red box pointing to the high-definition video preview of the patient's hand.
- Selecció del pacient a diagnosticar:** A red box pointing to the "Selecció del pacient" button and the patient selection table.
- Informació sobre la sessió:** A red box pointing to the session information table.
- Video remoto:** A red box pointing to the main video feed of the patient.
- Controles de la sessió:** A red box pointing to the session control buttons (Publicar, Veure, Sortir) at the bottom of the interface.

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# Telecremats: Some images



# Thank you!

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# The Research Center on **Networks** and **Future Internet technologies**

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