# Collab DDS
## Digital Diagnosis System



**Doctor/ Technician in Health Centre or Medical College** ⟷ **Medical Images (X-ray)** → **Local Client Computer (Viewer)** → **Remote Server (Processing & Storage)** → **Local Client Computer (Expert Side)** ⟷ **Expert Doctor in Medical/ Dental Institute**

## Diagnosis, Treatment Planning, Education & Research

CollabDDS: Collaborative Digital Diagnosis System provides an integrated online environment to visualise medical and dental images for diagnosis and treatment planning. CollabDDS is an indigenous, vendor independent solution. The high-bandwidth and low-latency capability of the National Knowledge Network (NKN) provides the ideal platform for this project.

— **Efficient Digital Workflow of X-Ray Imaging**
— **Improved Diagnosis and Treatment by Collaborative Consultation**
— **Enhancement of Quality of Medical Services**
— **Reliability, Security and Accessibility of Medical Records**
— **Education based on Real Time Diagnosis**

**CollabCAD Group
National Informatics Centre
New Delhi**

**Department of Orthodontics
Centre for Dental Education and Research
All India Institute of Medical Sciences
New Delhi**

**Department of Radiodiagnosis
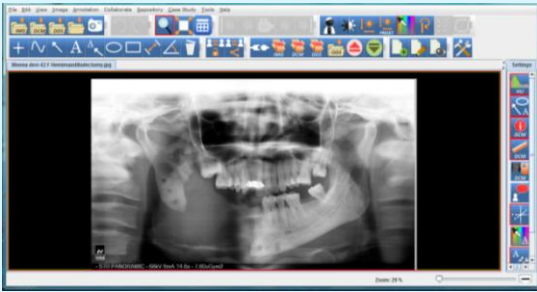All India Institute of Medical Sciences
New Delhi**

**OrthoCAD Group,
Indian Institute of Technology Bombay
Mumbai**

**Central Scientific Instruments Organisation
Chandigarh**

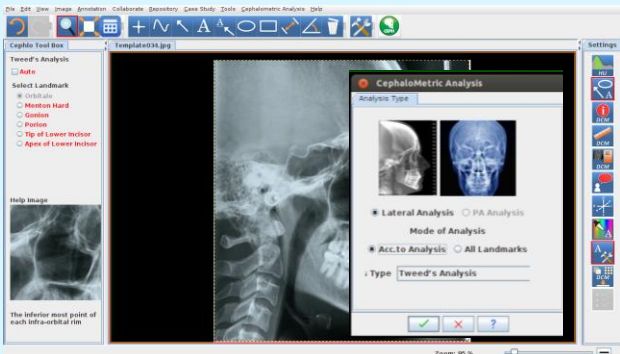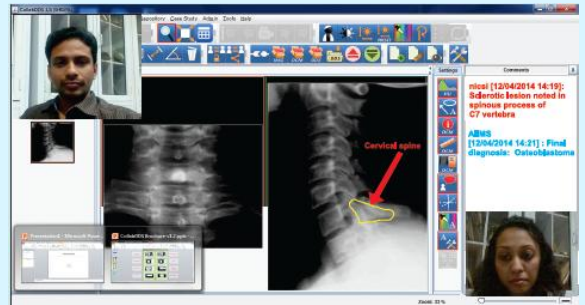www.collabdds.gov.in          collabdds@nic.in

# Visualization

- X-Rays images: Multiple formats supported
- DICOM images (CBCT, CT Scans and MRI data)
- Brightness, Contrast, Sharpness, Negative
- Zoom, Pan, Rotate, Flip, Undo, Redo

# Collaboration and Repository

- Real-time Sharing and Annotation
- Audio and Video Communication
- Integrated Centralized Repository of cases and teaching files
- Access and Security Control for Repository





# Additional Features

- Integrated Cephalometric Analysis
- Creation of Clinical Case Studies
- Image Processing and Manipulations
- Measurements: Distance, Angle



Radio-Diagnosis, AIIMS

King George's Medical University Lucknow

Sawai ManSingh Medical College Jaipur

Sarojini Naidu Medical College Agra

*Pilot Implementation of CollabDDS*

Andhra Medical College and KG Hospital Visakhapatnam



CDER, AIIMS

King George's Medical University Lucknow

Government Dental College and Hospital Ahmedabad

*Pilot Implementation of CollabDDS*

Government Dental College Goa