Dedalus ECM Solution for Healthcare
HYDMedia G6

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VISION

Optimize full paperless **processes** of health organisations with a **specific**, **central ECM solution, deeply integrated in hospitals clinical and administrative processes**

OBJECTIVE

Make the **right document** available, at the **right time** to the **right user**, independently from the source, type or format of document

Challenges & business issues faced by healthcare enterprises

Different types of documents, heterogeneous formats, produced by different internal or external systems, within the hospital, hospitals' group or regions

EPR

Paper records

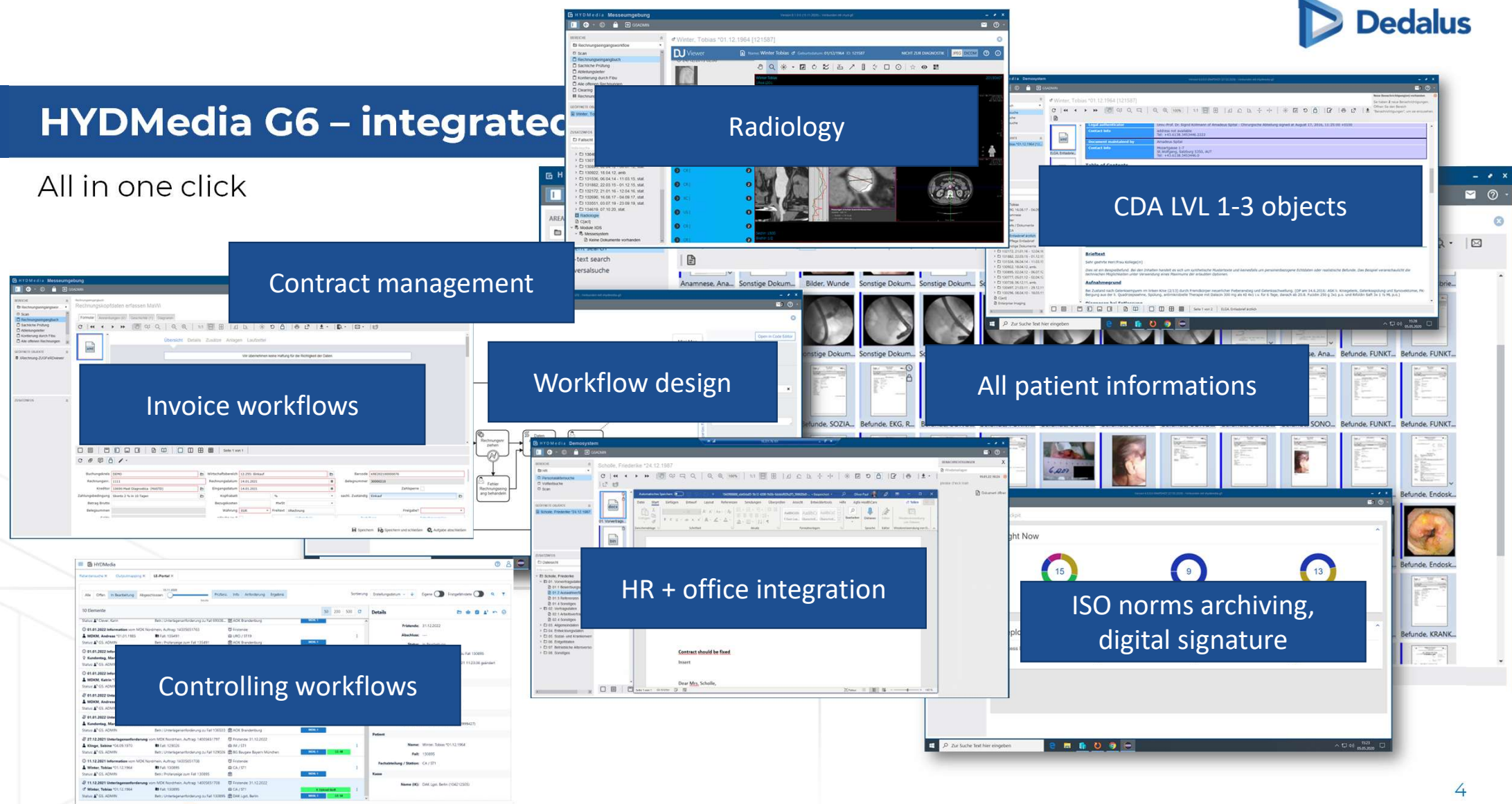**Other clinical systems (HIS, LIS, …)**

Administrative systems

HYDMedia G6 – integrated

All in one click

Radiology

CDA LVL 1-3 objects

Contract management

Invoice workflows

Workflow design

All patient informations

HR + office integration

ISO norms archiving, digital signature

Controlling workflows

HYDMedia G6 – main use cases

Dedalus

PAPERLESS HOSPITAL
Capture paper with different scanning processes

CENTRALISATION OF DOCUMENTS
For internal and external communication

LEGAL ARCHIVING
Legal electronic archiving

VNA
One central viewer for all patient information, incl. Imaging content (DICOM)

PURGE MIGRATION
Purge of EMR/EPR storage
Data migration of legacy systems

WORKFLOWS
Administrative workflows integrated in HYDMedia

EMRs integration

HYDMedia – 600+ references

- 4 hospitals with approx. **3.500 beds**

- EMR: i.s.h.med (Cerner)

- HYDMedia as **central patient folder** repository (legal archive)

- All digital objects (documents) are imported and indexed in HYDMedia

- All **paper patient files** are scanned within 24 hours by an **internal scanning services** team, provided by our partner Heydt Verlag GmbH

- One HYDMedia system interfaced with 3 affinity domains via IHE XDS profiles & FHIR

UniversitätsKlinikum Heidelberg

260 Lehrpraxen

- Vereinbarung über Patientenzuweisungen
- Gestellung von Ärzten
- Verkauf von Serviceleistungen

Rheumazentrum Baden-Baden

BG-Unfallklinik Ludwigshafen

Facharztpraxen

KRH Weinheim

KRH Bethanien

DKFZ

KRH Nierenzentrum

Brustzentrum

Schmieder-Kliniken

KRH Sinsheim

Klinikum Heidelberg

Teleradiologie und -kommunikation ca. 34 KRH

KRH Schwetzingen

KRH Frankfurt / Höchst

Thorax-Klinik

KRH Heppenheim

Hausarztpraxen (IV-Partner)

ALK's (24)

SRH-Kurpfalz-krankenhaus

KRH Salem

Neckar Odenwald Kliniken

KRH Eberbach

- 29 Kooperationsverträge mit Krankenhäusern
- 38 Verträge mit Arztpraxen

St. Vincentius Krankenhaus

Kooperationen ambulant, Verträge zu prästationären Leistungen, Verträge über gemeinsame Patienten-behandlung mit onkologischen Fachpraxen

Chefärzte = Chefärzte Klinikum

Kooperationsvereinbarungen

Chefärzte = Professoren der Med. Fakultät

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Top installations : Agaplesion, customer since 2014

- Group of 20 hospitals with approx. **6.000 beds**

- Dedalus ORBIS EMR

- One **central HYDMedia installation** / central datacenter (in Frankfurt, Germany)

- HYDMedia as **central patient record repository** (integrated with all EMR's)

- Paper **patient files are scanned (bulk and on-demand)**

- **HR files** – all employee files are stored and linked with the HR management system – shared services centralized

- IHE integration with insurances

- **Admin. workflows**:
  - Invoices management
  - Contract mangement
  - Controlling management

- Approx **480 mio.** of objects stored up to now

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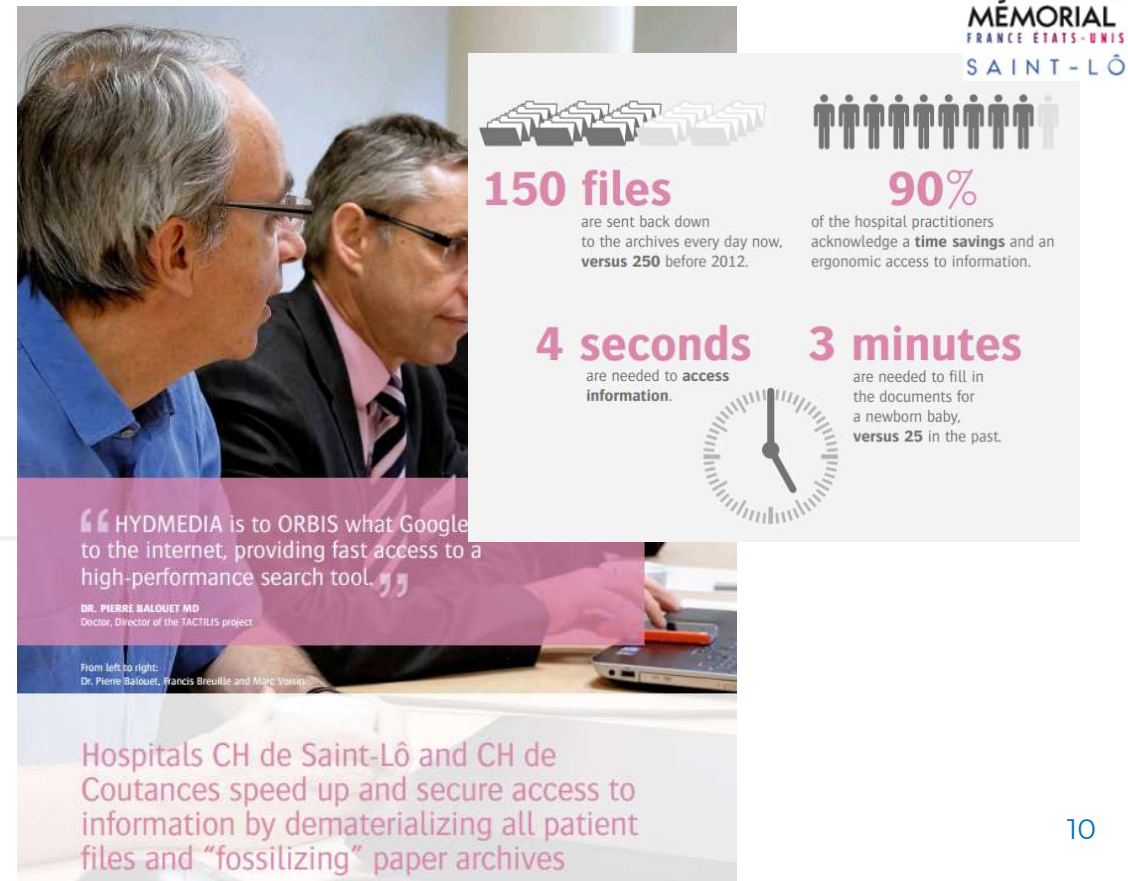# Hospital group St Lô & Coutances (France)

Customer profile:
- 2 hospitals (public, non-profit), 2 sites, 1 EMR (Dedalus)
- 875 beds

Project:
- Goals :
  - Paperless hospital
  - make clinical information available centrally
  - improved billing process
- Scope : patient information (clinical and non-clinical)
- Onsite own dedicated scan services team

Facts and figures
- From 250 patient files moved per day down to 150 (2016), now <5
- Access to information: from 2-3 days to 4 sec.
- Medical records ETPs: from 20 down to 3
- RoI reached within 24 months
- Quicker billing process (+/- 20% time saving)

CENTRE HOSPITALIER MÉMORIAL
FRANCE ETATS-UNIS
SAINT-LÔ

150 files are sent back down to the archives every day now, **versus 250** before 2012.

90% of the hospital practitioners acknowledge a **time savings** and an ergonomic access to information.

4 seconds are needed to **access** information.

3 minutes are needed to fill in the documents for a newborn baby, **versus 25** in the past.

" HYDMEDIA is to ORBIS what Google [...] to the internet, providing fast access to a high-performance search tool. "

DR. PIERRE BALOUET MD
Doctor, Director of the TACTILIS project

From left to right:
Dr. Pierre Balouet, Francis Breuille and Marc Voisin

Hospitals CH de Saint-Lô and CH de Coutances speed up and secure access to information by dematerializing all patient files and "fossilizing" paper archives

Empowering information:
the paperless workflow of digital
archiving leads to a true single,
digital health record

0.5 MILLION
DOCUMENTS ALREADY ARCHIVED

ALMOST 75%
DECREASE IN PAPER CHART
REQUESTS TO MEDICAL RECORDS

50%
DECREASE IN PAPER
PROCESSING RELATED TIME

22.2 DAYS
PER YEAR CLERICAL STAFF
TIME SAVED

GREATER THAN 50%
REDUCTION IN PHYSICAL
STORAGE SPACE

8 MINUTES
WAITING TIME SAVINGS
PER CHART

These figures come from an internal time-study carried out by Lennox & Addington County General Hospital

MORE TIME AND RESOURCES FOR PATIENT CARE

- **Constant record quality & disaster recovery:**
  - ECM can replace paper records and their associated risk of deterioration and destruction due to disaster.
- **Optimization of key resources:**
  - Resources formerly dedicated to paper archiving are now being utilized better; RNs are able to focus on patient care tasks instead of handling charts.
- **Time savings:**
  - ECM has eliminated the time lost in locating and transporting paper charts.
- **Access to patient information:**
  - The clinician has fast, "anywhere/anytime" access to patient information.
- **Enhanced patient care and reduced patient wait times:**
  - With the increased speed in accessing the patient's information, the clinician can more quickly make informed diagnosis and/or treatment decisions.
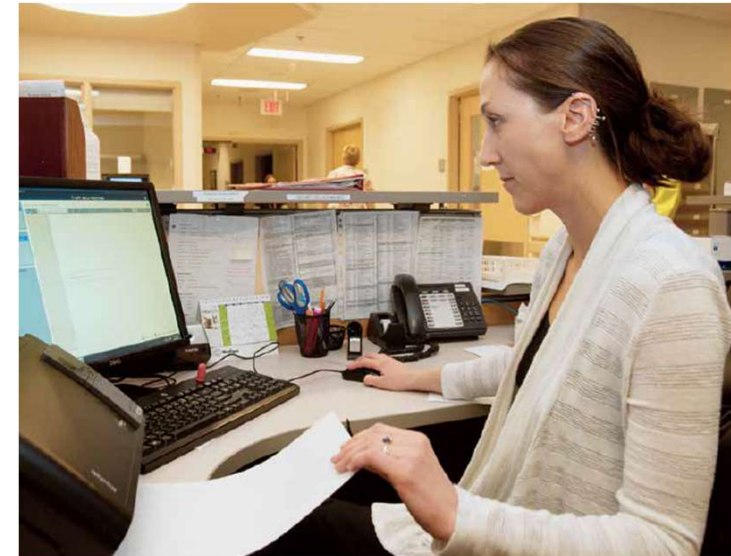
"The record is very well organized and easily searchable in many ways, making information retrieval as simple as it can be in a world of huge data bases."

– Dr. Kim Morrison, Chief of Staff, Lennox & Addington County General Hospital

HYDMedia G6 ECM: fast ROI

- **Significant costs reductions possible, like:**
  - physical storage of archives (size, maintenance, security…)
  - archival process (transportation, storage, retrieval)
  - staff allocated to the archive department and document-based processes

- **Improvement of productivity possible, by:**
  - reducing the amount of missing archived patient/business operations records
  - reducing the retrieval time of patient/business operations records
  - increasing the availability of the archived record across different locations
  - maintaining the physical quality of the archived documents
  - automation of clinical and business operation workflows (chart analysis and completion, release of information, invoice management…)

Welcome to HYDMedia
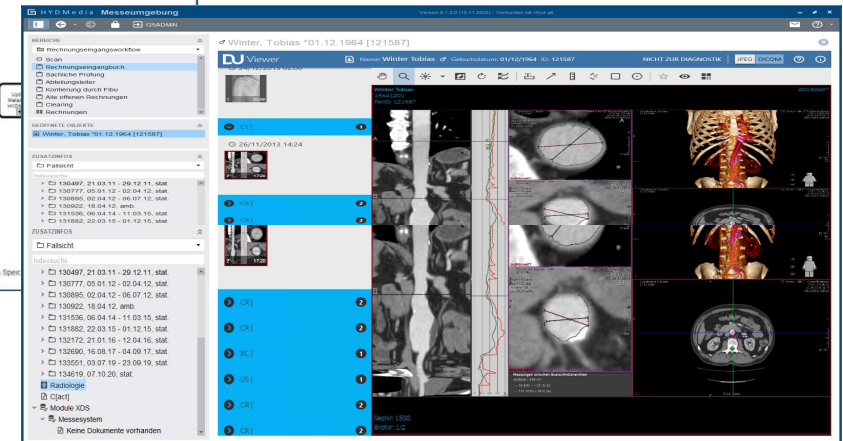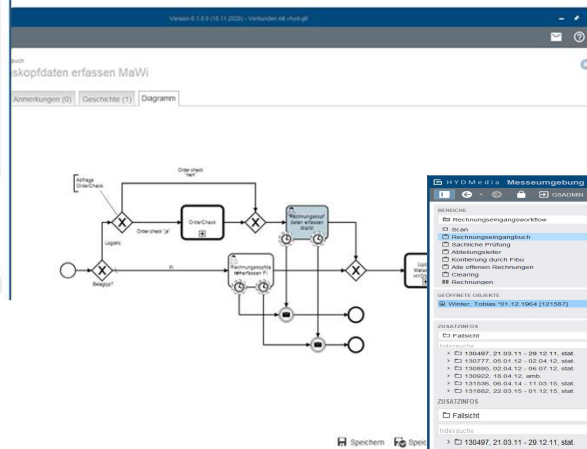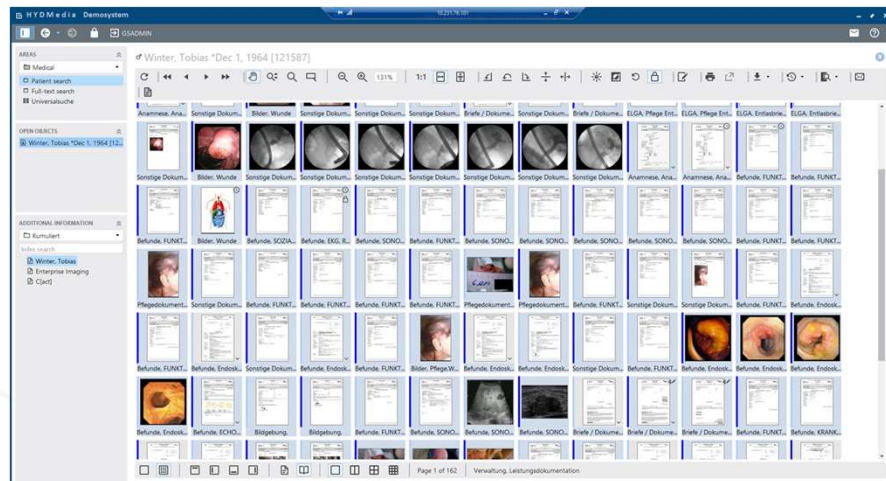
ECM – HYDMedia

ECM – Enterprise Content Management

CLINICAL PORTAL

VALUE-BASED CARE

REVENUE CYCLE

COMPLIANCE TO LEGAL REGULATIONS

PAPERLESS OPERATIONS

RECORD MANAGEMENT OF HOSPITAL DOCUMENTATION

HOSPITALS DOCUMENT WORKFLOW

PROCESS IMPROVEMENT

RISK/INCIDENT MANAGEMENT

TRACEABILITY

QUALITY ENHANCEMENT

REGIONAL HEALTH ORGANISATIONS

ENTERPRISE IMAGING

Hospital Networking w/ External Applications/Entities

Dedalus

DC4H
MPI + XDS Document Registry
(+additional components)

XDS or FHIR

Other Applications or Entities
(sources and/or consumers)

Patient Synoptic

Search and Visualize
(documents that have been shared)

Publish

Publish

HYDMedia 1
DMS 1 + XDS Document Repository 1

HYDMedia Viewer

User 1

User 2

HOSPITAL / HOSPITAL GROUP 1

User 1

User 1

HYDMedia Viewer

HYDMedia 2
DMS 2 + XDS Document Repository 2

HOSPITAL / HOSPITAL GROUP 2

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