

The logo for HIMSS Colombia is displayed in the top left. The word 'HIMSS' is in a bold, blue, sans-serif font, with a small blue dot above the 'i'. The word 'Colombia' is in a grey, italicized, serif font. The background of the slide is a solid yellow color. On the right side, there is a faint, stylized map of South America. At the bottom of the yellow section, there is a white line representing an ECG or heartbeat, which spans the width of the slide.

HIMSS *Colombia*

Bogotá, 27–28 November 2017

The journey to HIMSS Stage 7

Vicent Moncho Mas

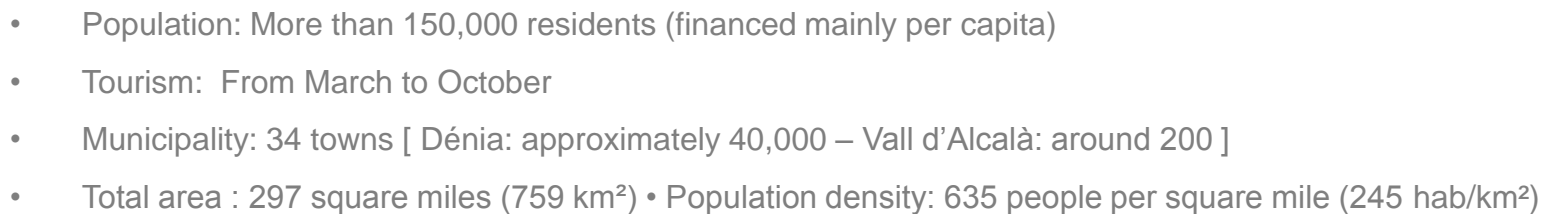
CIO, Marina Salud (Spain)

About me...



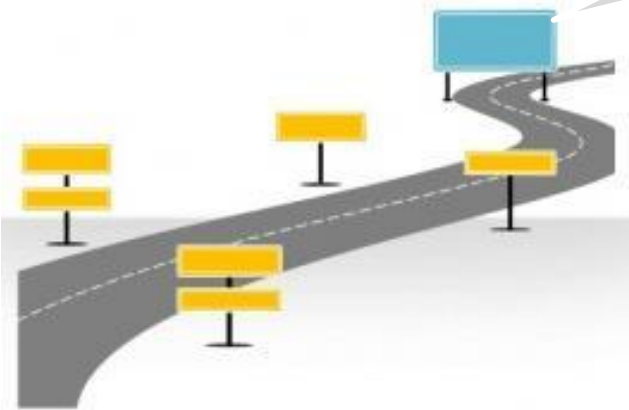
- Degree in Mathematics
- Computer Engineering
- Master Degree on the IKS
- CPHIMSS
- CHCIO
- Vice Chair of HIMSS Governing Council

1997 – 1999	Analyst – Hospital Marina Alta
2000 – 2004	Head of IT Department - Primary Care
2004 – 2005	Head of IT Department – Integrated Care Department
2005 – 2006	Project Manager - Valencia Healthcare Authority
Since 2006	Chief Information Officer - Marina Salud



PAPERLESS DAY 1

Big bang go-live



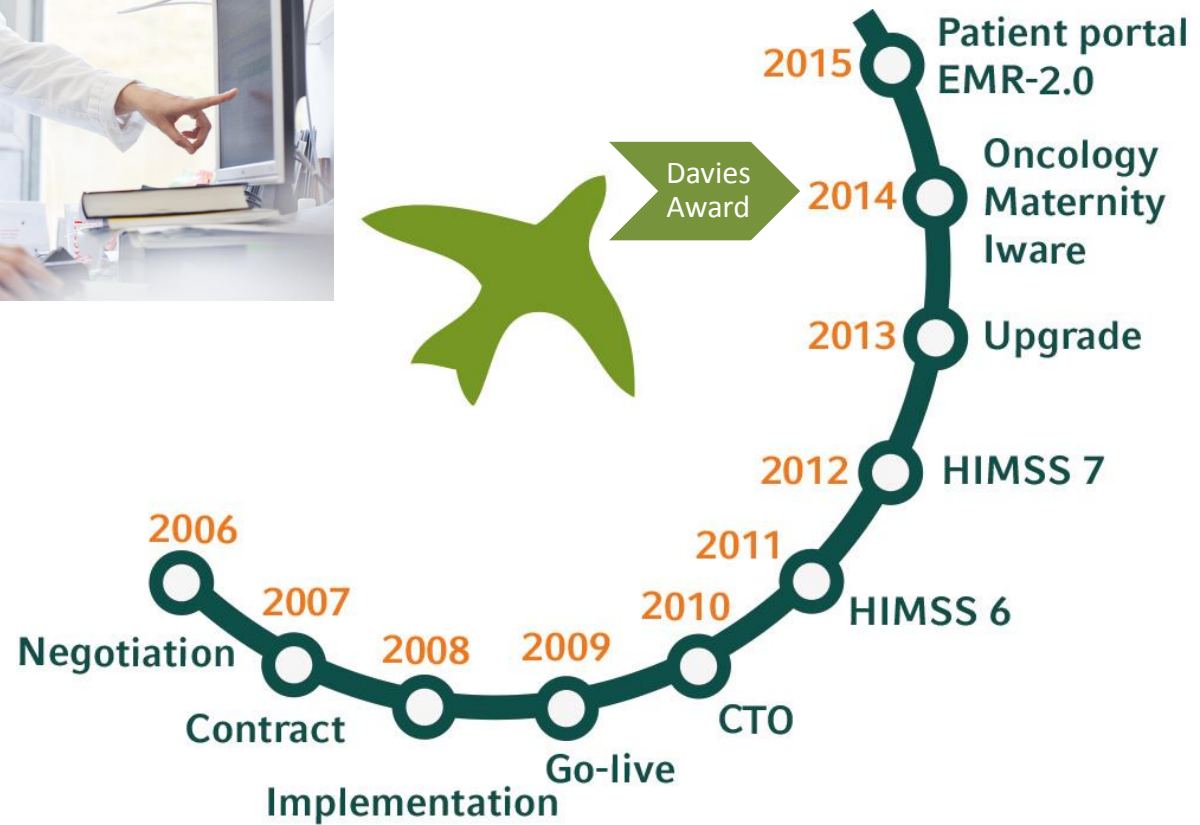
16 months project
On-site working team

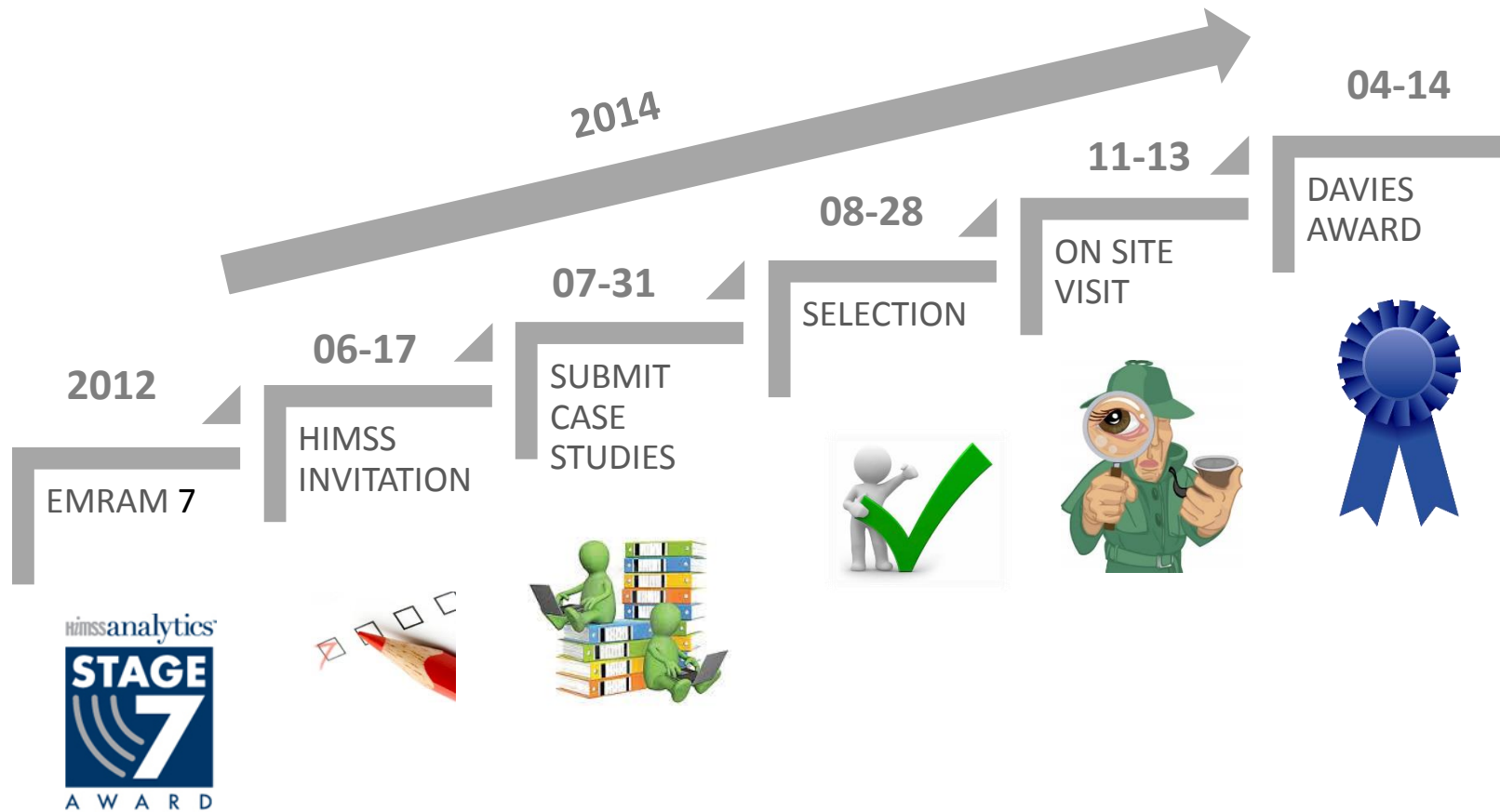


DOMINION

SilverlabNET



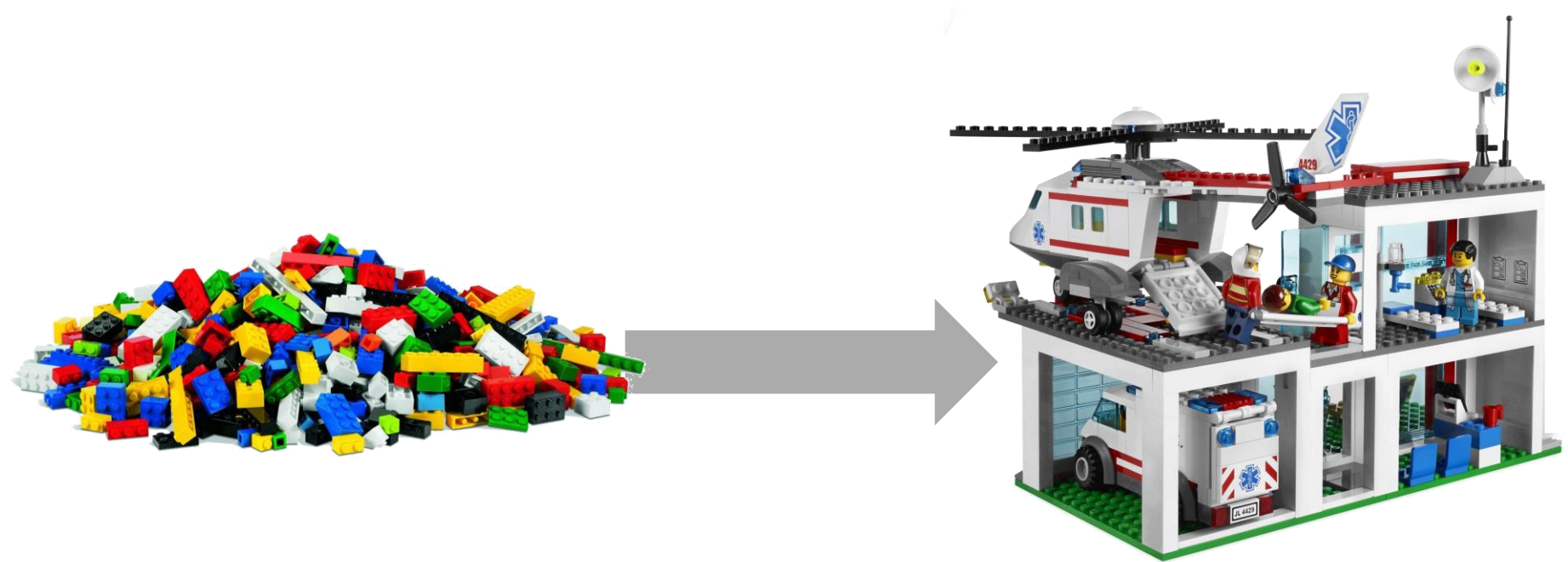






Is this the end of the
journey? Final step?

Stage 7 means



Clinical decision support systems

European EMR Adoption Model SM	
Stage	Cumulative Capabilities
Stage 7	Complete EMR, CCD transactions to share data; Data warehousing feeding outcomes reports, quality assurance, and business intelligence; Data continuity with ED, ambulatory, OP.
Stage 6	Physician documentation interaction with full CDSS (structured templates related to clinical protocols trigger variance & compliance alerts) and Closed loop medication administration.
Stage 5	Full complement of PACS displaces all film-based images.
Stage 4	CPOE in at least one clinical service area and/or for medication (i.e. e-Prescribing); may have Clinical Decision Support based on clinical protocols.
Stage 3	Nursing/Clinical documentation (flow sheets); may have Clinical Decision Support for error checking during order entry and/or PACS available outside Radiology.
Stage 2	Clinical Data Repository (CDR) / Electronic Patient Record; may have Controlled Medical Vocabulary; Clinical Decision Support (CDS) for rudimentary conflict checking; Document Imaging and health information exchange (HIE) capability.
Stage 1	Ancillaries - Lab, Radiology, Pharmacy - All Installed OR processing LIS, RIS, PHIS data output online from external service providers.
Stage 0	All Three Ancillaries (LIS, RIS, PHIS) Not Installed OR Not processing Lab, Radiology, Pharmacy data output online from external service providers.

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Stage 2

- CDSS for rudimentary conflict checking

Stage 3

- CDSS for error checking during order entry

Stage 4

- CDSS based on clinical protocols

Stage 6

- Full CDSS (structured templates related to clinical protocols trigger variance & compliance alerts)
- Closed loop medication administration

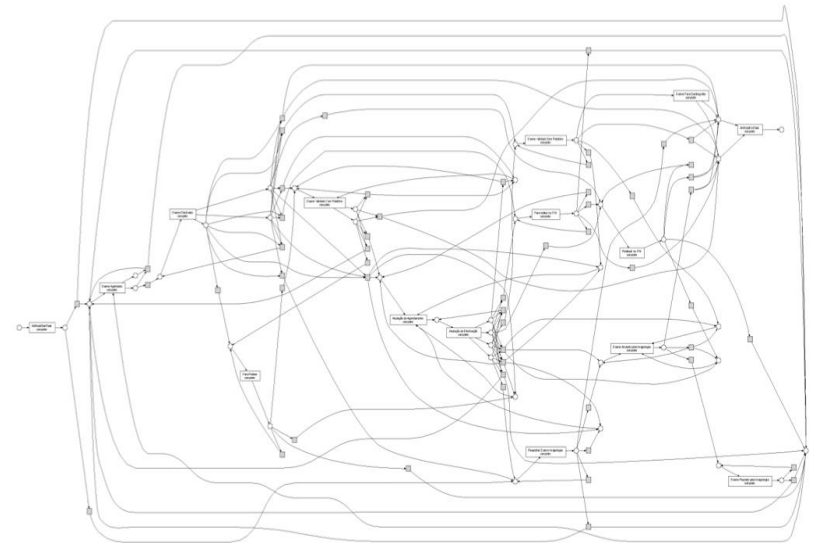
Stage 7

- DW feeding outcomes reports
- Business intelligence

Smart EMR

Clinical workflows

- Usability
- Standard
- Safety
- Quality



Information

Consents

Appointments

Orders

Reports

Guided EMR

Pathology protocols

- Standard process
- State of the art
- Best decisions



Medication

Kind of care

Test

Patient
information

Patient management

- Chronic disease
- Cancer screening
- Post surgical



Medication

Kind of care

Test

Patient

Control

information

Information management

- Activity
- Quality
- Financial
- Health results



Could be better

What we do

How we do

Conclusions

Healthcare revolution vs evolution

IT investment is not enough in ...

Paying for content, knowledge

Thank you very much

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