



eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

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BUILDING A NATIONAL ELECTRONIC MEDICAL RECORD EXCHANGE SYSTEM-- EXPERIENCES IN TAIWAN

Min-Huei (Marc) Hsu, Ministry of Health and Welfare, Taiwan

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Where is Taiwan?



Taiwan -2014

- Land area : 36,192 sq Km (13,975 sq mile)
- Population : 23 million
- Age over 65 : 11.0%
- GDP : US\$ 20,925 per capita
- National Health Expenditure : US\$ 1,087 per capita
- NHE in GDP : **6.6 %**
- Life expectancy : **79.51**, 76.2 (M), 83.0 (W)

Major Features of NHI in Taiwan



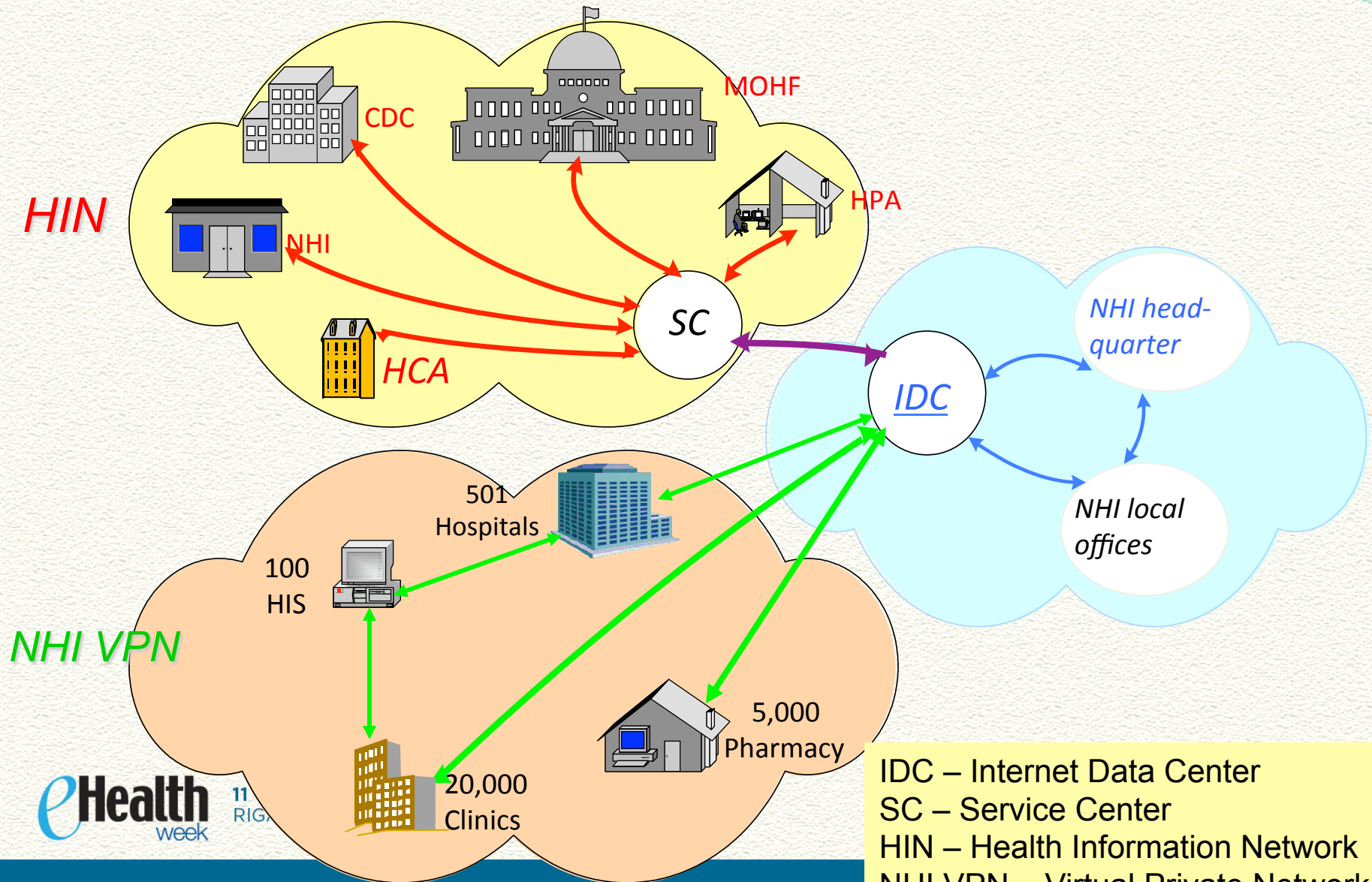
- Single Payer
- Universal coverage
- Comprehensive and uniform benefits
- Unlimited freedom of choice (No gatekeeper)
- Easy access and timely service
- Acceptable quality of care
- Affordable cost
- High public satisfaction
- Health IT adoption

Health IT Adoption in Taiwan



- Health Information Network (HIN)
 - Initiated in **1988**
 - Three regional network centers across Taiwan connected with frame-relay to DOH
 - Only major public hospitals were connected
 - Was not fully functional
- Health Information Network 2.0 (HIN 2.0)
 - Since **1998**
 - Three regional network centers across Taiwan connected with ATM to DOH
 - Most of the public hospitals and more than 300 local health offices connected to HIN 2.0 using 64K ~ T1 connections
 - Supports electronic claim submission and other health administration functions
- National Health Informatics Project (NHIP)
 - Since **2008**
- Taiwan Health Cloud
 - Since **2013**

The NHI VPN



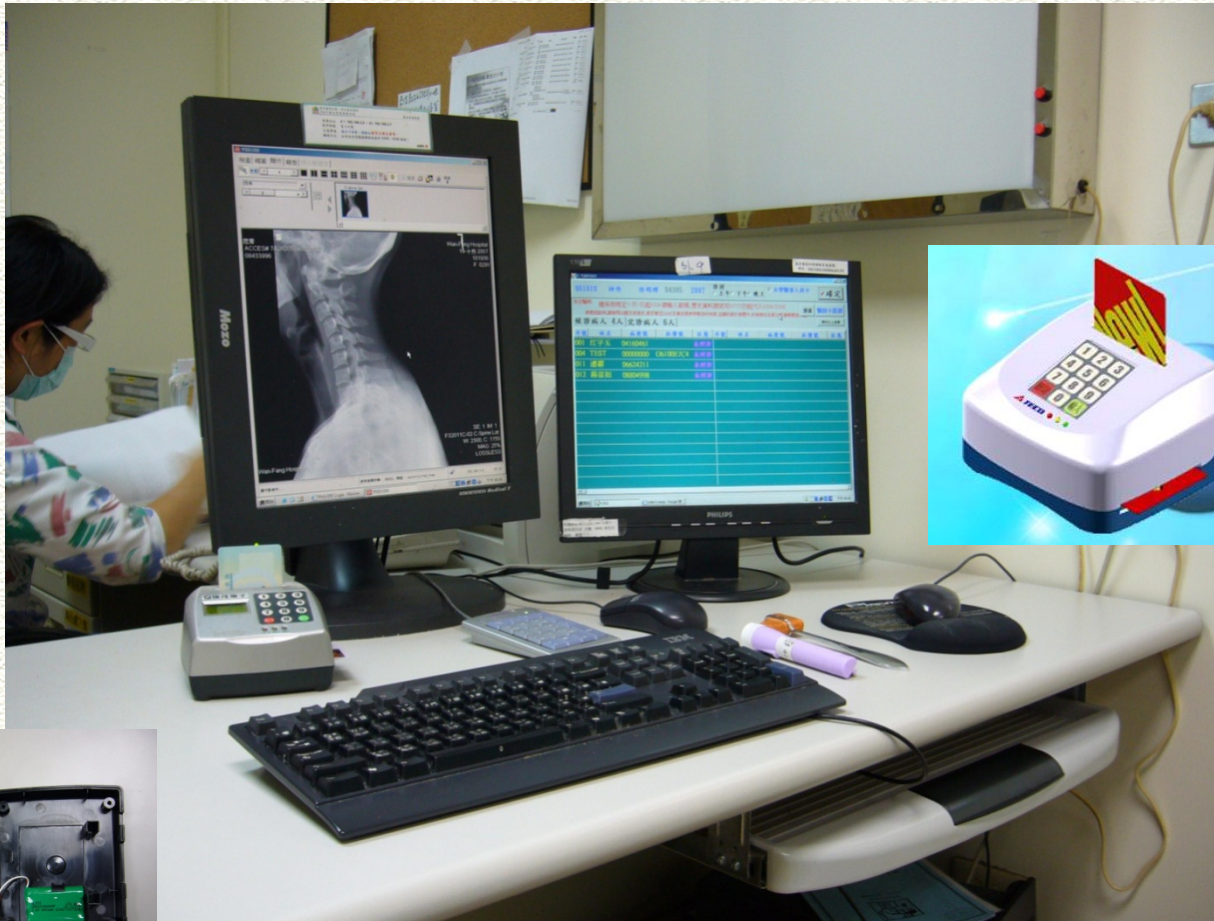
Health Smart Card



RSA Card issues from HCA
to health professionals

non-RSA Card for all citizens

Dual-card System



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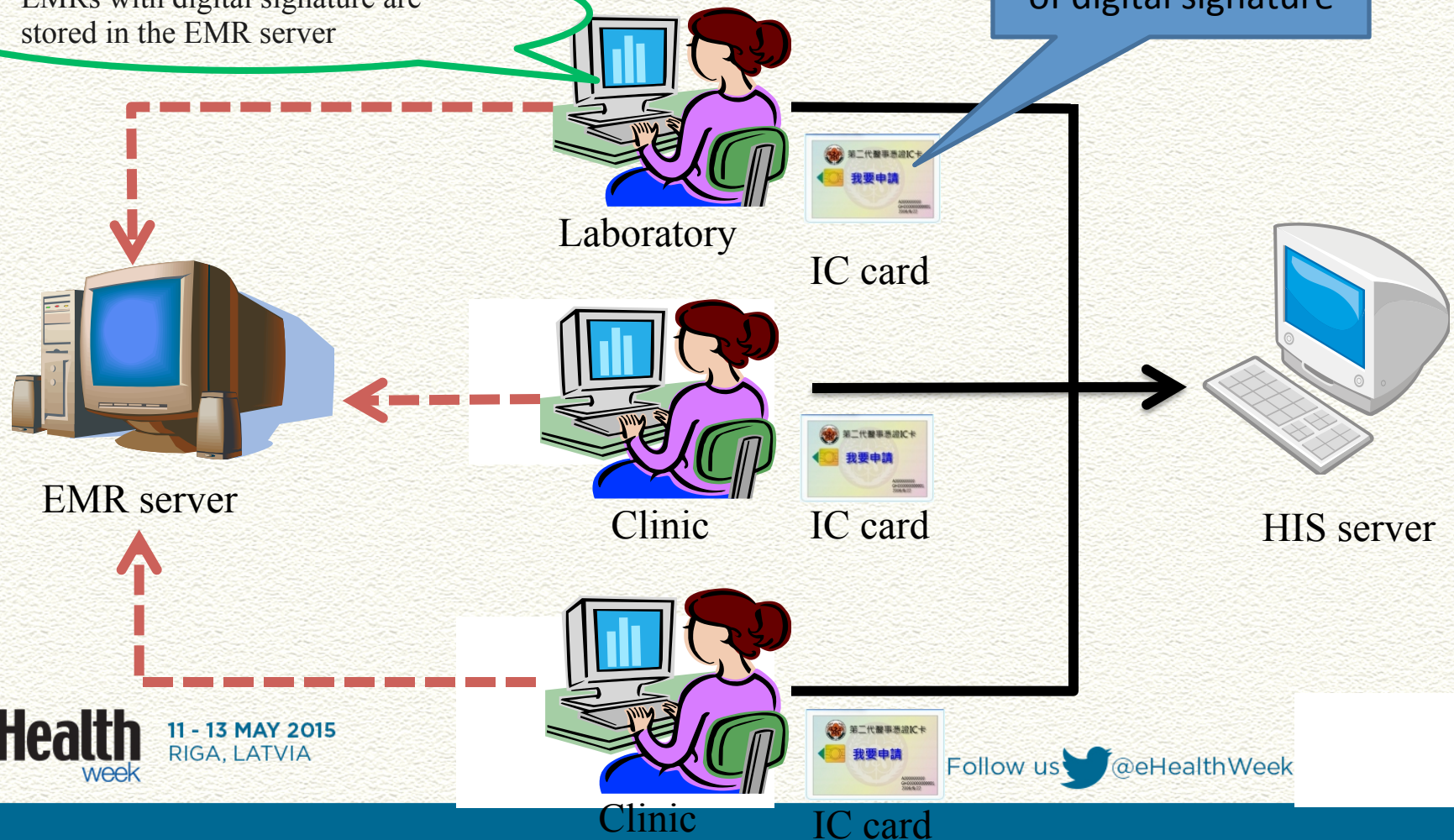
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Electronic Medical Record with Digital Signature

EMRs with digital signature are stored in the EMR server

A core component of digital signature

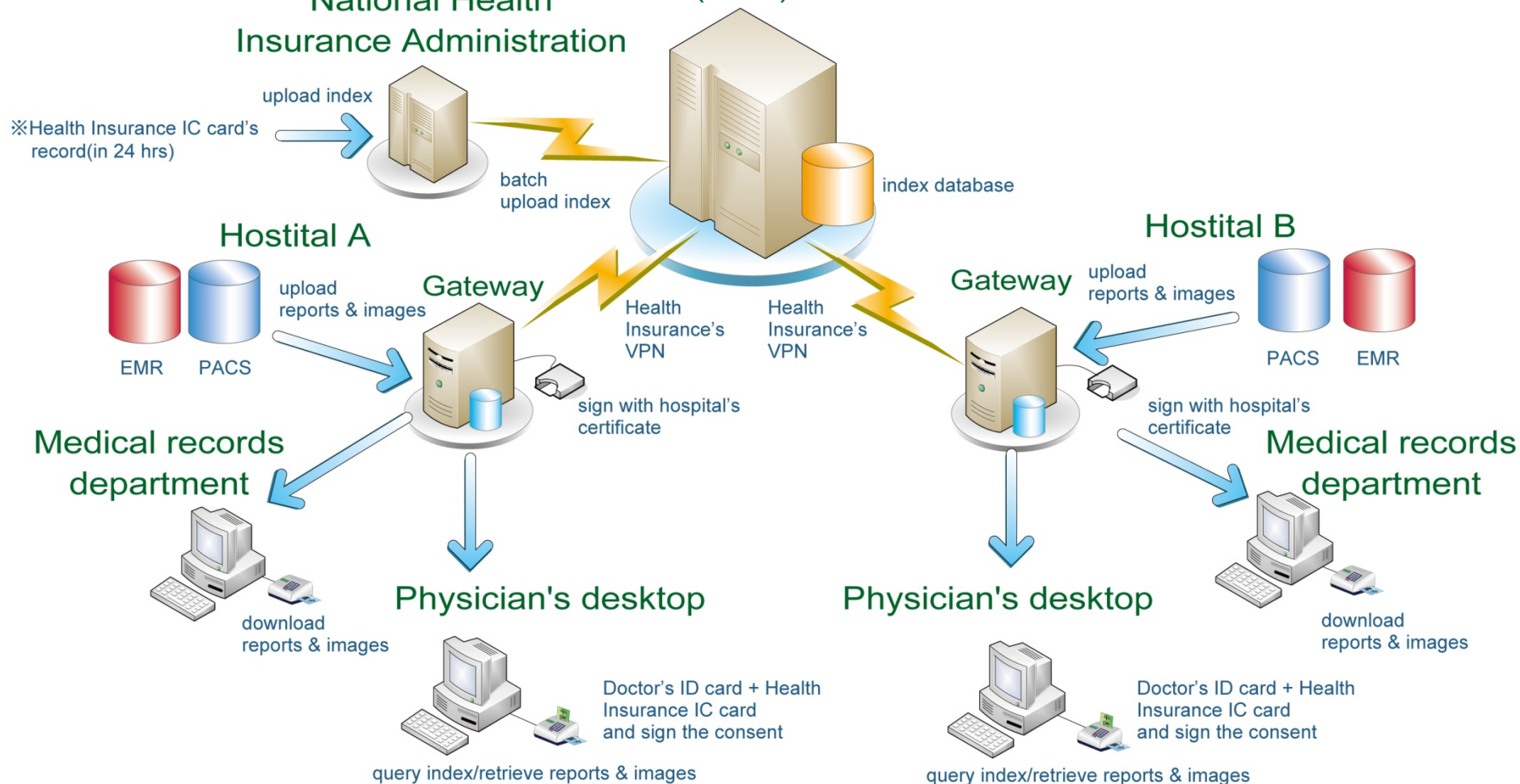




Ministry of Health and Welfare

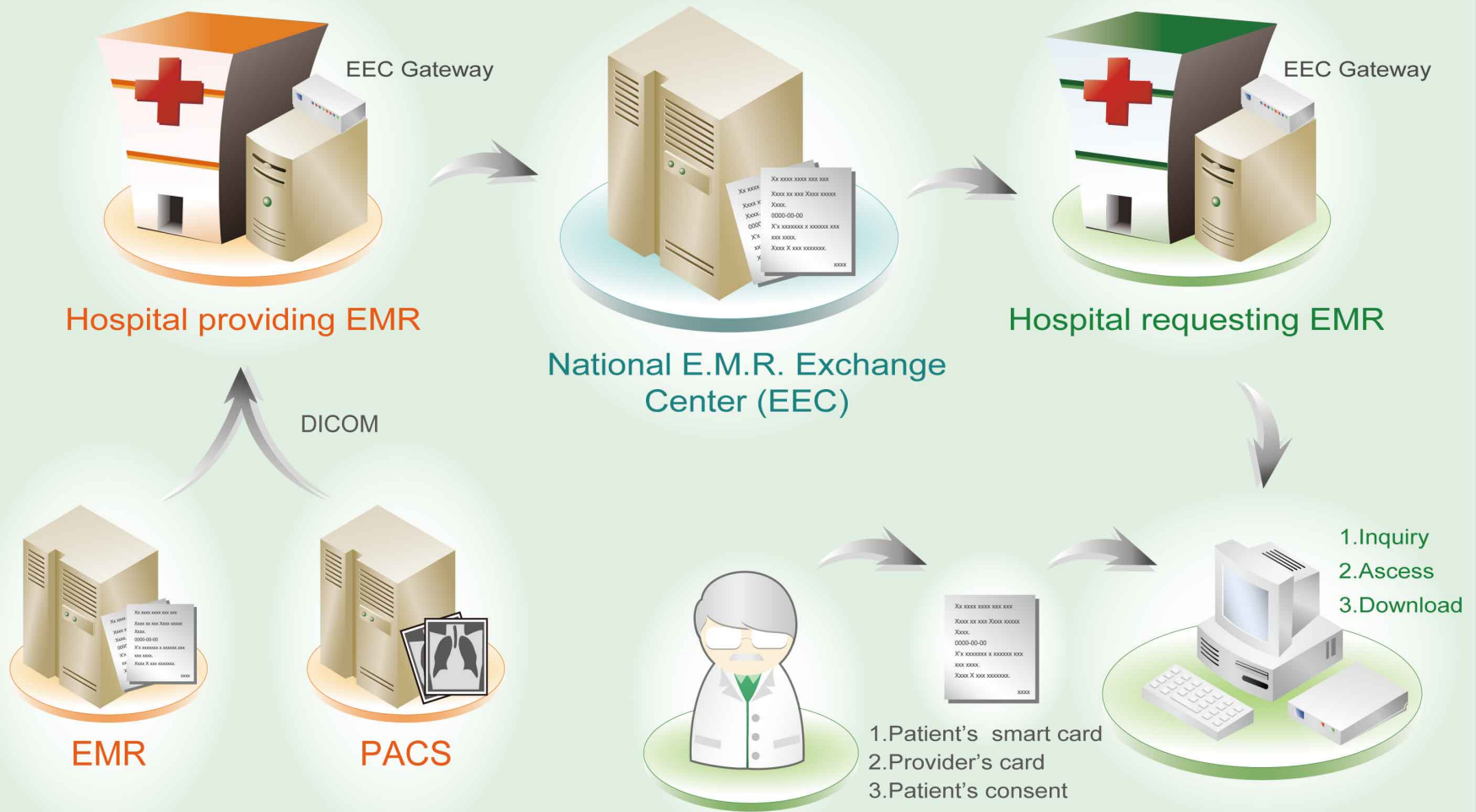
National EMR Exchange Center (EEC)

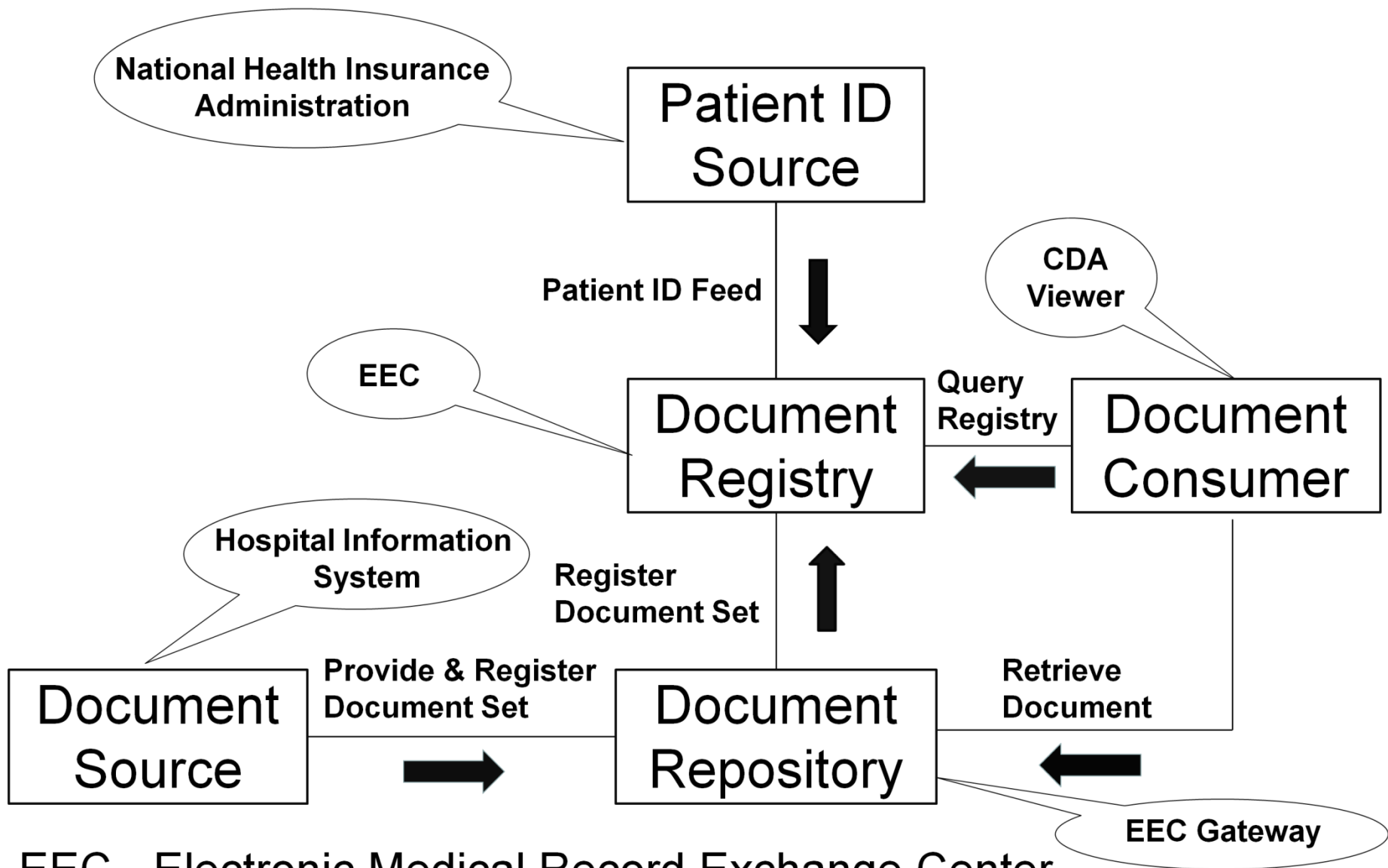
National Health Insurance Administration





Inter-hospital Exchange through National EMR Exchange Center





EEC - Electronic Medical Record Exchange Center



ELSEVIER

journal homepage: www.intl.elsevierhealth.com/journals/cmpb



Building a National Electronic Medical Record Exchange System – Experiences in Taiwan

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National Taiwan University Hospital



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Mobile Clinics





Healthcare Innovation 2014



NHIA

NHI IC Card

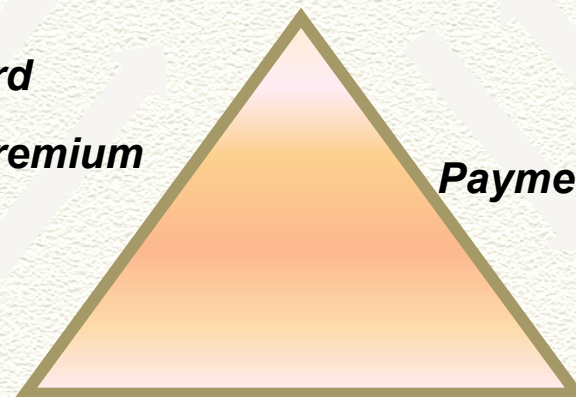
My Health Bank

Premium

Claim Data

Payments

NHI PharmaCloud



Healthcare Services

Copayment



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Insured



Providers #eHW15

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Telemonitoring of blood pressure/blood sugar with integration of CPOE



eHealth
We
Home gateway

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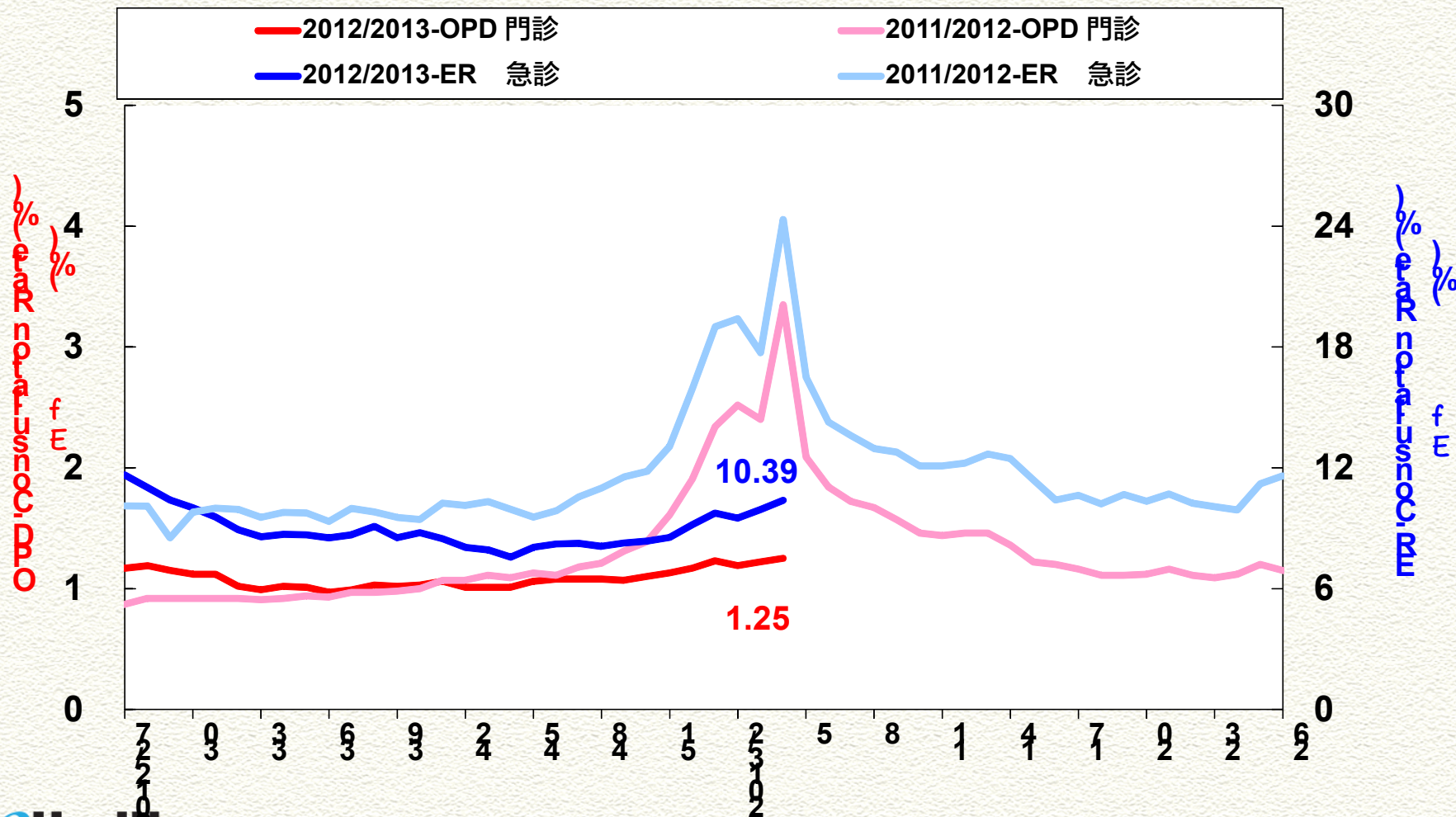
Big data is like teenage sex:
everyone talks about it,
nobody really knows how to do it,
everyone thinks everyone else is
doing it, so everyone claims they
are doing it...

(Dan Ariely)



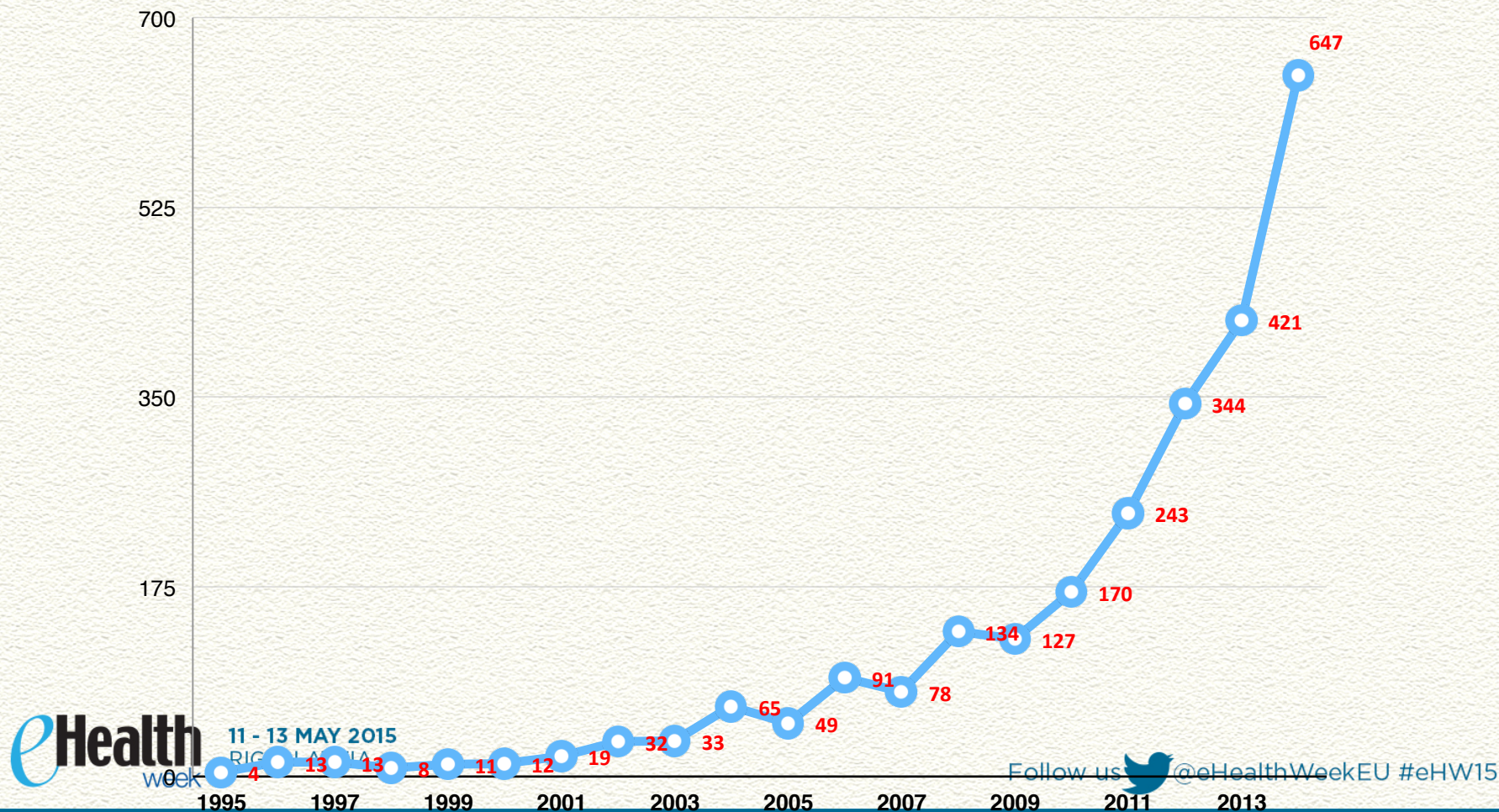
Real-time Outbreak and Disease Surveillance, RODS

Updated: 2013/01/29

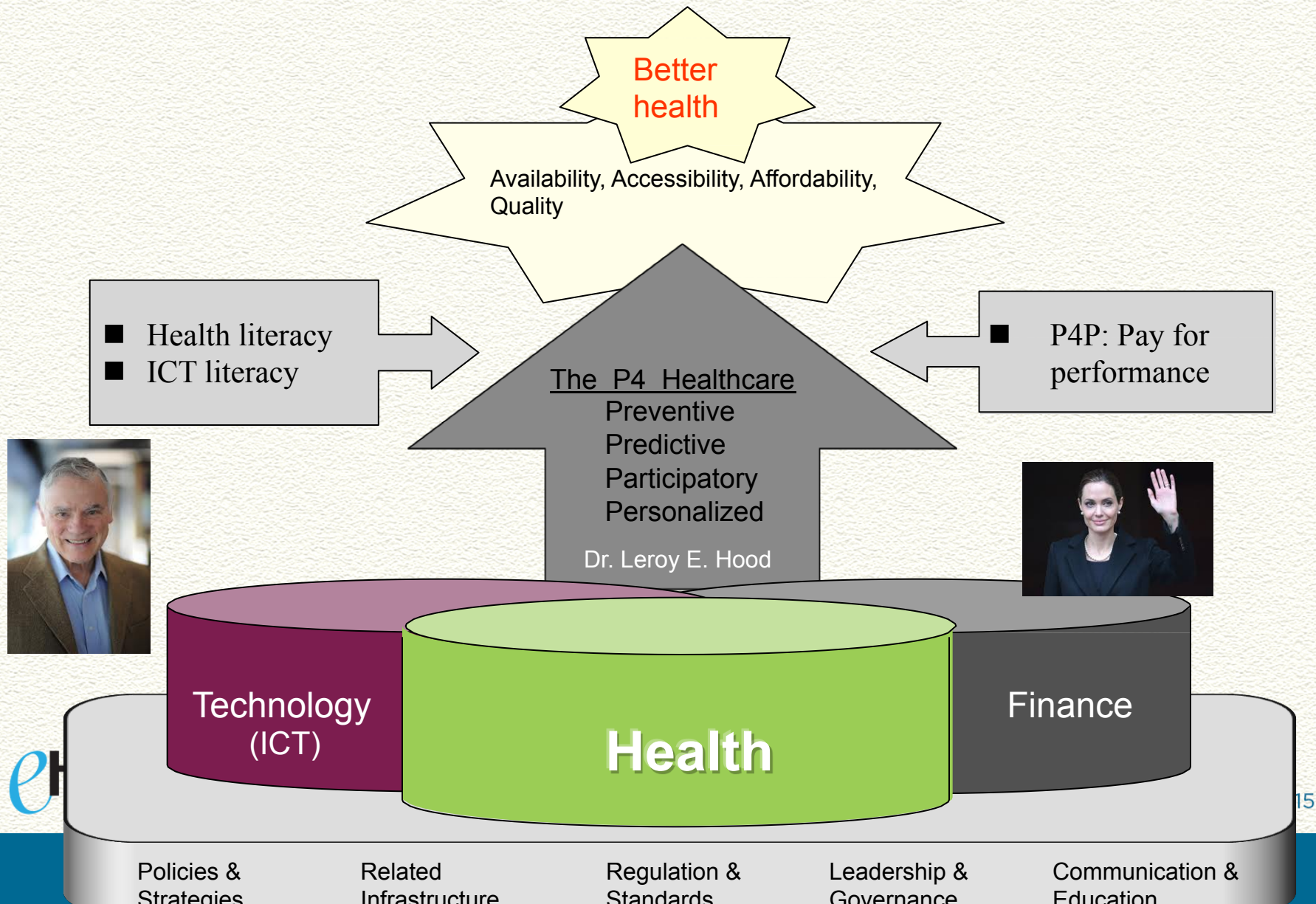


Papers Published and indexed by PubMed

“Taiwan National Health Insurance Database”



P4 Healthcare and ICT





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THANK YOU

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