

analysis for computational ways to use health information effectively

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Why Systemize Health Information??

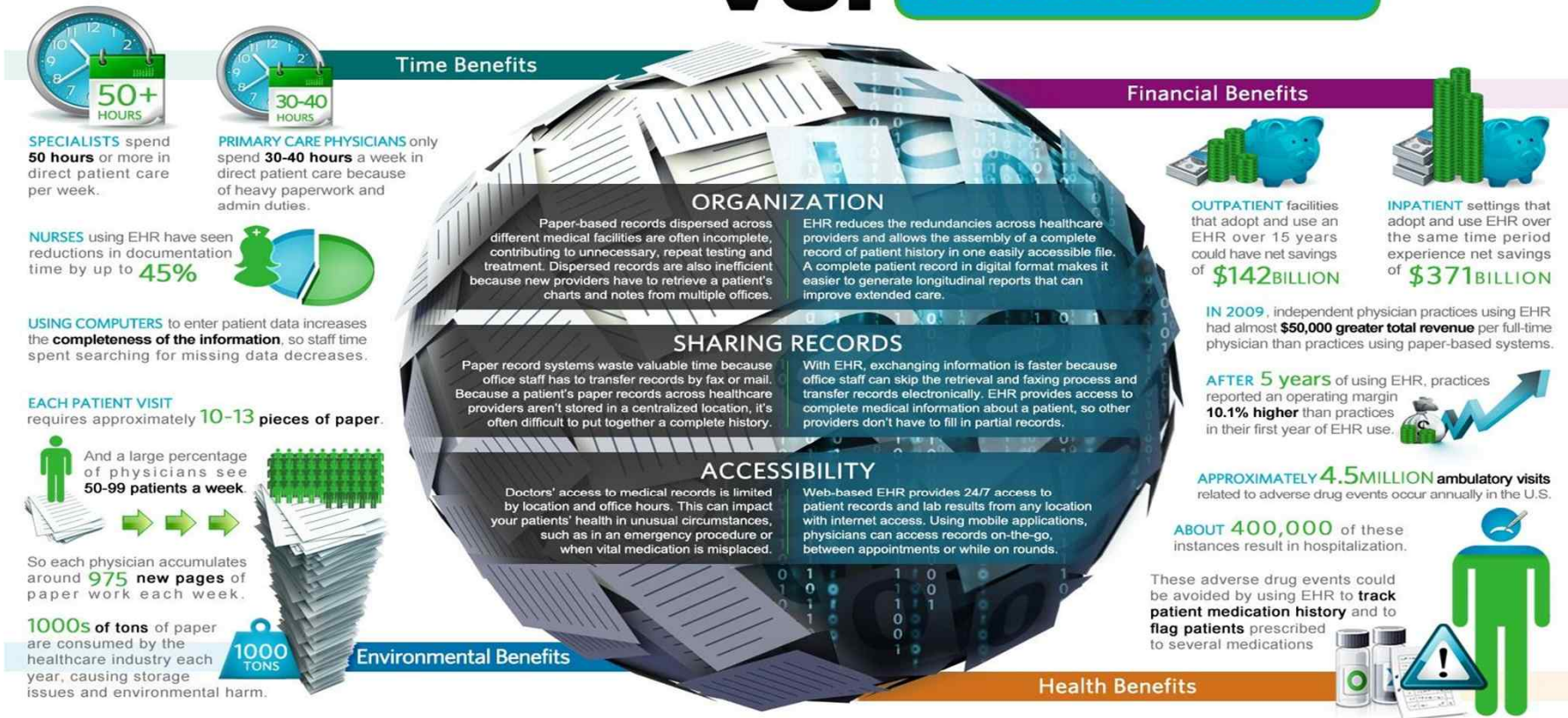
- The amount of information poured into the world is beyond our imagination these days. Picking information that a user needs out of all, including “garbage” info, has become hard work. In addition to that, the ways to categorize and utilize useful information more effectively and efficiently become complex more and more.
- As life expectancy steadily increases and various computer-related medical technologies are being developed every day, computational way(system) for health info is getting a necessity in order to organize, classify and pick out lots of information created in seconds, whenever needed.

ICI meeting 2015

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Paper Records vs. Computational Records

TRADITIONAL PAPER RECORDS **VS.** Electronic Health Records



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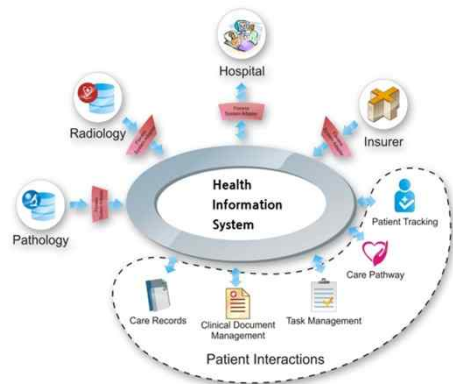
■ source : <http://ihealthtran.com/wordpress/2013/09/infographic-traditional-paper-records-vs-electronic-health-records-2/>

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Main issues of health information

- Despite an increase in life expectancy and the aging of population, health information and related law lacks standardization in many countries. Since the healthcare industry has a very sensitive nature of law, government's involvement is very critical. And medical technology and its related structure is highly dependent on government's subsidies.



Short name	Full Name	Short name	Full Name
BI	Business Intelligence	EEG	Electro EmcephaloGram
CAL	Computer Aided Learning	EMPI	Electronic Master Patient Index
CCHIT	Certification Commission for Health	EMR	Electronic Medical Record
	Information Technology	EPR	Electronic Patient Record
CDSS	Clinical Decision Support System	ERP	Enterprise Resource Planning
CMV	Controlled Medical Vocabularies	MIS	Management Information System
CPOE	Computerized Physician Order Entry	NHII	National Health Information Infrastructure
CPR	Computer-based Patient Record	OCS	Order Communication System
CRM	Customer Relationship Management	PACS	Picture Archiving Communication System
DICOM	Digital Imaging and Communication in	PM/PA	Patient Management/Patient Account
	Medicine	RHIN	Regional Health Information Networks
EDI	Electronic Data Interchange	RIS	Radiology Information System
EDIFACT	Electronic Data Interchange For	WAMIS	Wide Area Medical Information System
	Administration, Commerce and Transport		

<Examples/Terms of Computational Way for Health Information>

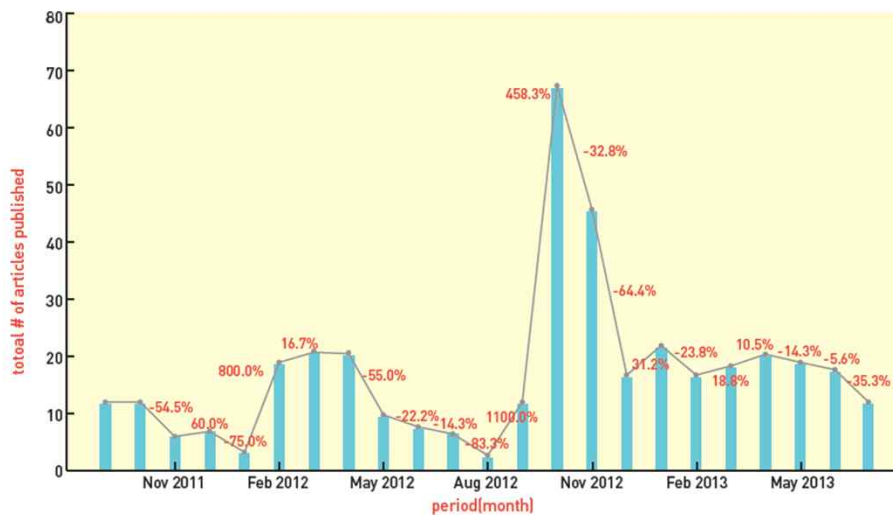
▪ source : <http://www.fiorano.com>

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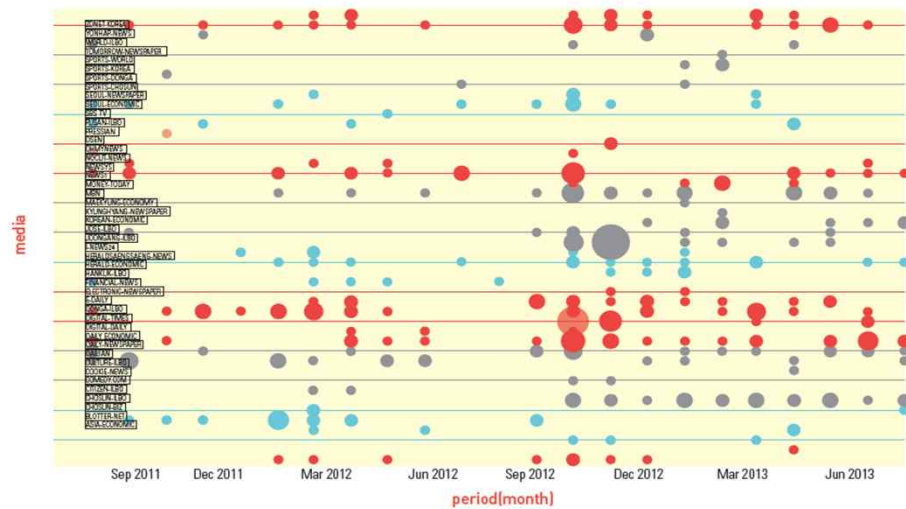
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Online Trend of Computational Way for health information

- The # of articles published in 2012 in S. Korea increased about 1.5 times than in 2011. And the # of articles published in 2013 is expected as almost the same as in 2013 or more.

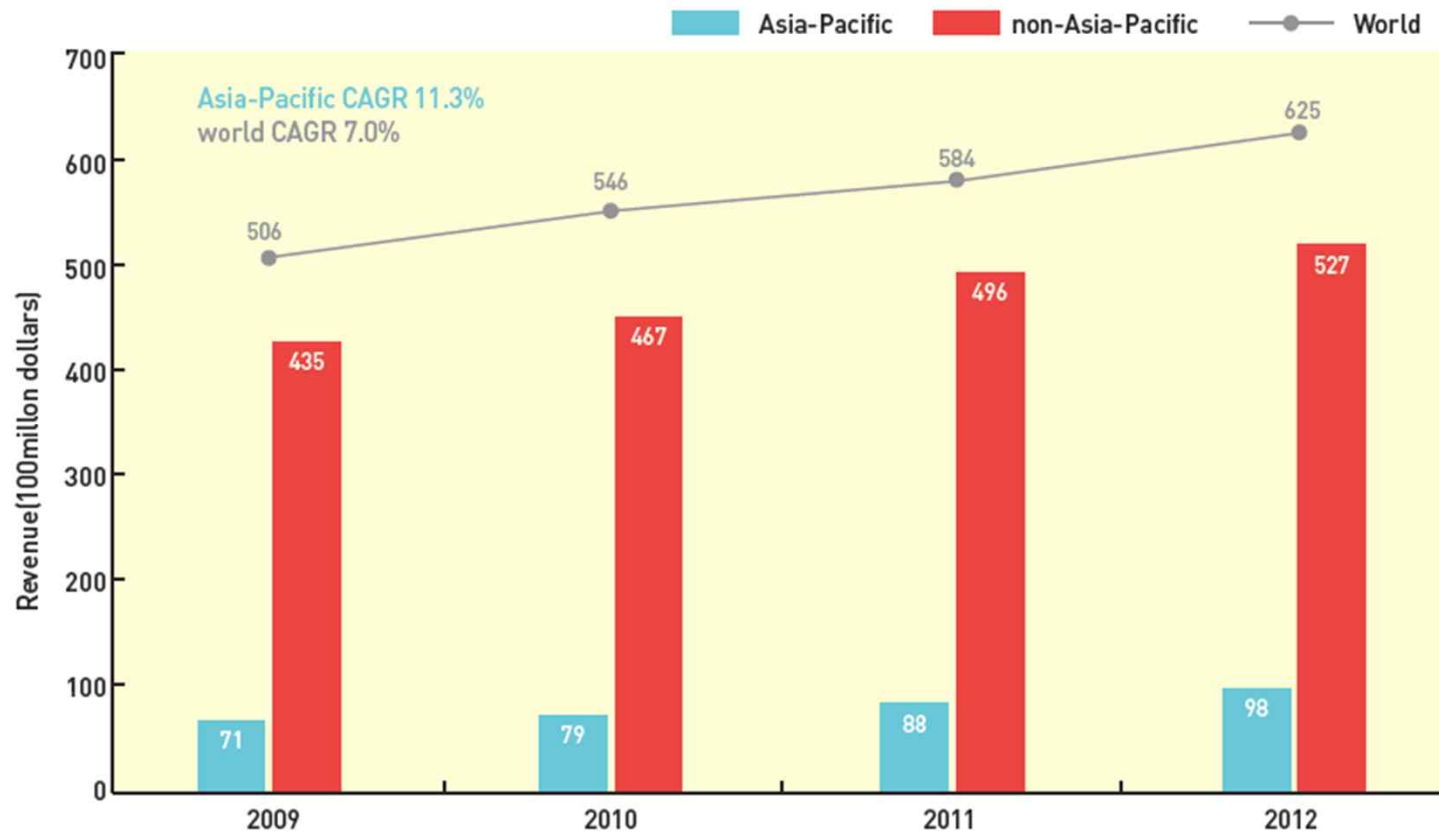


< Number of EMIS-related articles published on NAVER in Sep. 2011- June. 2013 >



< Publication count of publishing sources over period >

Global Market of Computational Way for Health Information



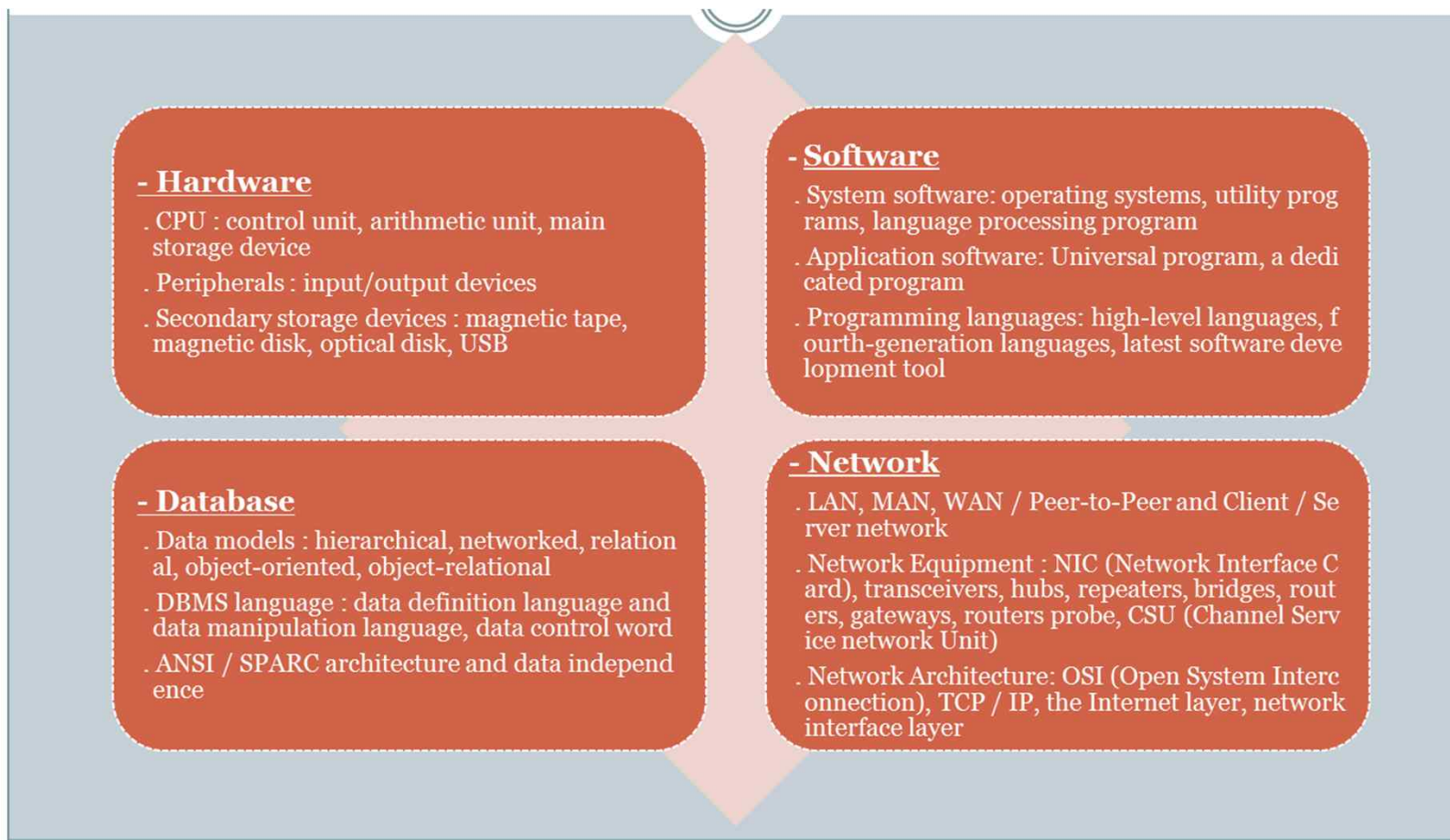
< global market size of computational system for health info >

■ source : Frost and Sullivan, 2012

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Core Technology Elements of Computational Way for Health Information



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