



Value of HIT

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HIMSS North America
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transforming health through IT

Value of HIT

Value Score

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Objectives

- Describe the four components of the Value Score.
- Identify the quality measurement framework.
- Identify next steps to obtain your organization's value score.

HimSS ValueScore



We paid WHAT!!!
Convince me we're getting some **value**
from this thing.

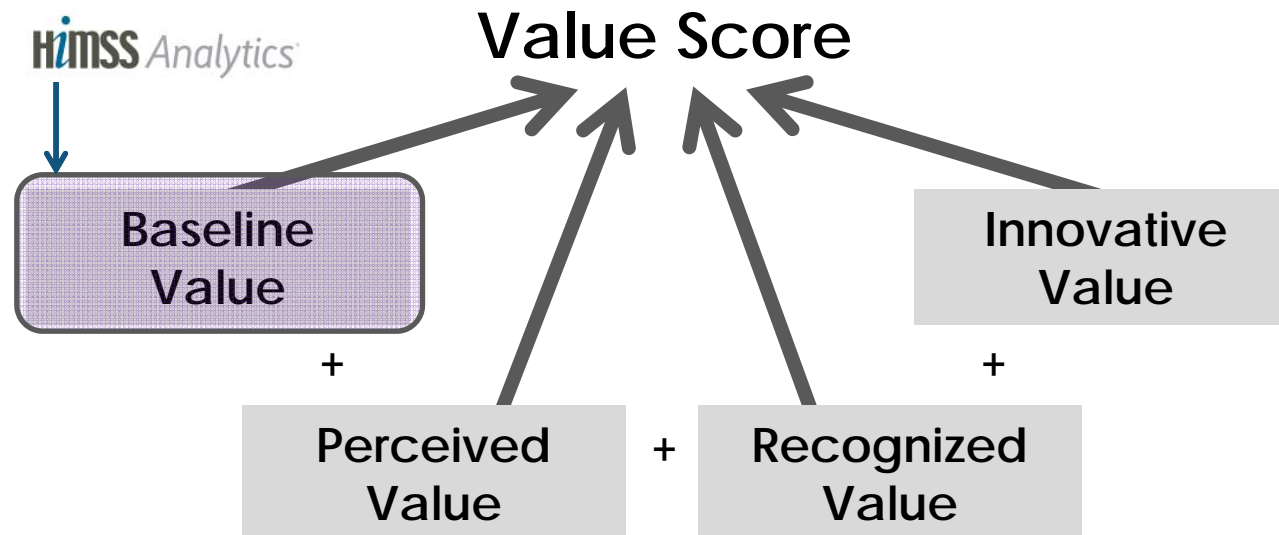
HIMSS ValueScore

HIMSS value score

Hims /valyoō / skôr

A ground-breaking approach developed by the HIMSS (Healthcare Information and Management Systems Society) organization to numerically represent the positive impact healthcare organizations realize from their health IT investments.

HiMSS ValueScore : Model



EMR Adoption ModelSM

Stage	Cumulative Capabilities
Stage 7	Complete EMR, CCD transactions to share data; Data warehousing; Data continuity with ED, ambulatory, OP
Stage 6	Physician documentation (structured templates), full CDSS (variance & compliance), Closed loop medication admin.
Stage 5	Full R-PACS
Stage 4	CPOE, Clinical Decision Support (clinical protocols)
Stage 3	Nursing/clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology
Stage 2	CDR, Controlled Medical Vocabulary, CDS, may have Document Imaging; HIE capable
Stage 1	Ancillaries - Lab, Rad, Pharmacy - All Installed
Stage 0	All Three Ancillaries Not Installed



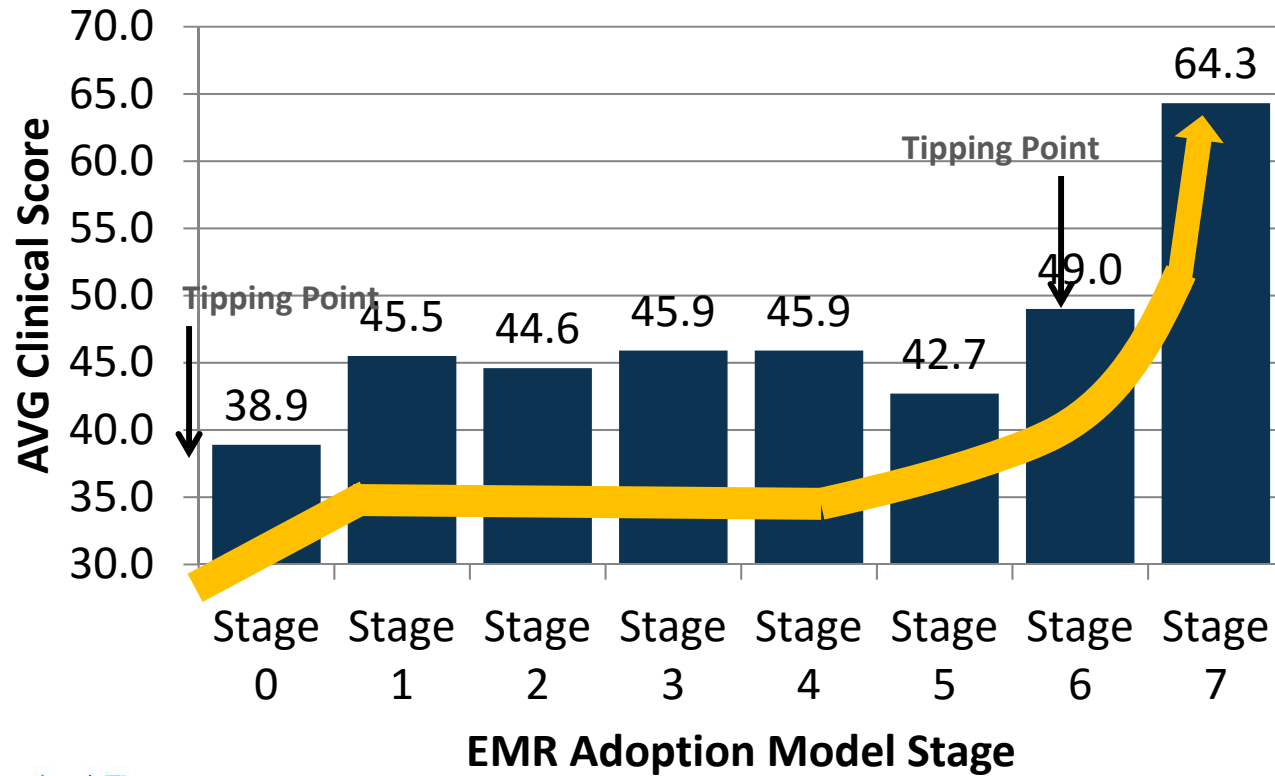
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Meaningful Use Stage 1 = Approximately EMRAM Stages 3.5
 Meaningful Use Stage 2 = Approximately EMRAM Stages 5.5
 Meaningful Use Stage 3 = EMRAM Stages 6 and 7 → Technically capable; incentive to participate remains a challenge

US EMR Adoption Model SM			
Stage	Cumulative Capabilities	2011 Q2	2016 Q4
Stage 7	Complete EMR, CCDA transactions; Data Analytics to Improve Care	1.1%	4.8%
Stage 6	Physician documentation (structured templates), full CDSS, full R-PACS	4.0%	30.5%
Stage 5	Closed loop medication administration	6.1%	34.9%
Stage 4	CPOE, Clinical Decision Support (clinical protocols)	12.3%	10.2%
Stage 3	Clinical documentation, CDSS (error checking)	46.3%	13.9%
Stage 2	CDR, Controlled Medical Vocabulary, CDS, HIE capable	13.7%	2.3%
Stage 1	Ancillaries - Lab, Rad, Pharmacy - All Installed	6.6%	1.4%
Stage 0	All Three Ancillaries Not Installed	10.0%	81%

Higher EMRAM correlates with higher quality

**AVG clinical score or average clinical score, was based on the projected scores developed by Press Ganey, a private consulting firm, for CMS' initial Value Based Purchasing (VBP) program. The Y axis on the chart represents clinical scores (not including patient satisfaction component) as a metric for quality of clinical care.*



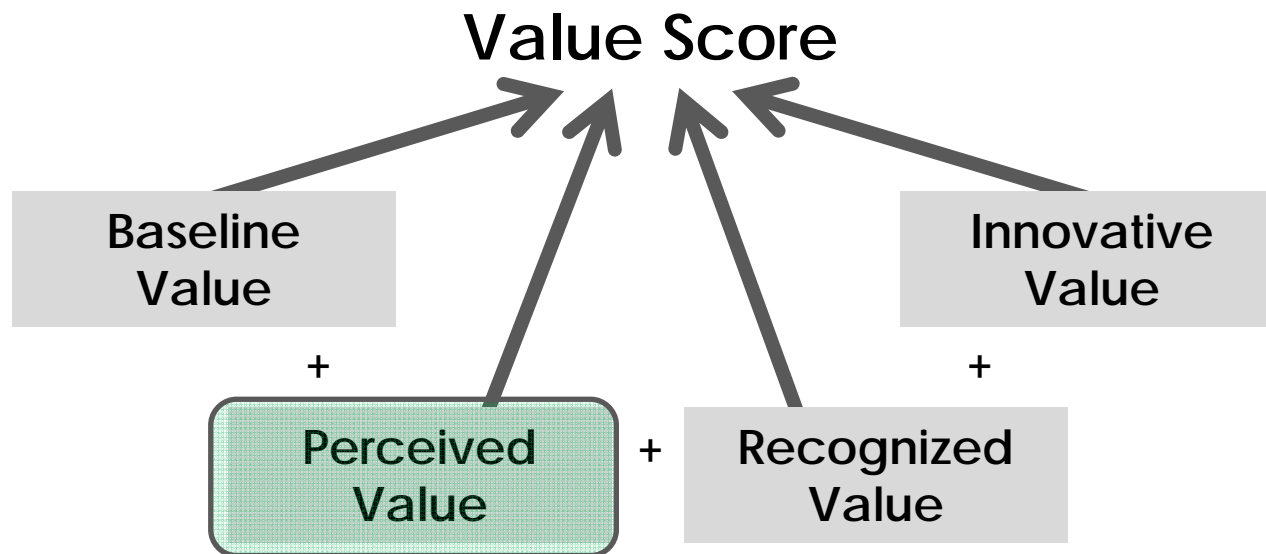
STAGE	  Outpatient EMR Adoption Capabilities Ambulatory
7	Complete EMR: external HIE, data analytics, governance, disaster recovery
6	Advanced clinical decision support; proactive care management, structured messaging
5	Personal health record, online tethered patient portal
4	CPOE, Use of structured data for accessibility in EMR and internal and external sharing of data
3	Electronic messaging, computers have replaced paper chart, clinical documentation and clinical decision support
2	Beginning of a CDR with orders and results, computers may be at point-of-care, access to results from outside facilities
1	Desktop access to clinical information, unstructured data, multiple data sources, intra-office/informal messaging
0	Paper chart based



Information security is critical to ensuring healthcare organizations fully realize the benefits of their health information technology investments and protect patient safety. **Which of the following information security practices has the organization adopted?**

- a. Risk assessment and management
- b. Asset management
- c. Identity and access management
- d. Threat and vulnerability management
- e. Awareness training
- f. Cyber threat intelligence
- g. Incident response
- h. Business continuity
- i. Disaster recovery

HiMSS ValueScore : Model



HiMSS ValueScore : Perceived Value

Is your organization generally positive about your health IT investments ?



How do you believe health IT is it having a positive impact?

HiMSS ValueScore : Perceived Value

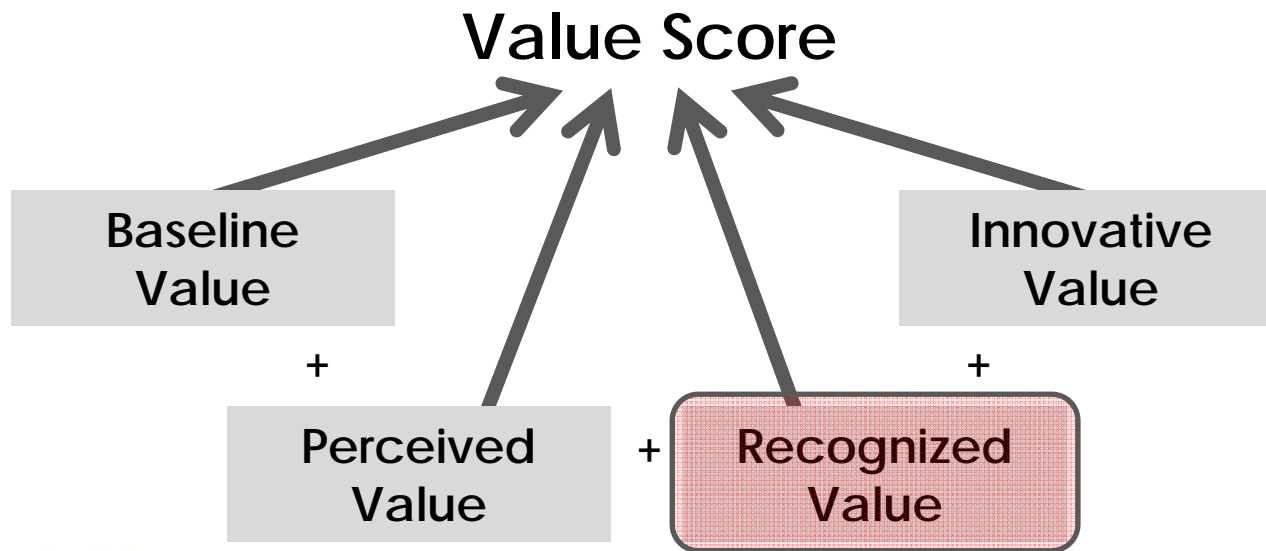
What type of impact has the use of health information technology in the organization had on the organization's ability to...

- a. Capture and share clinical data
- b. Implement advanced clinical processes
- c. Realize improved clinical outcomes

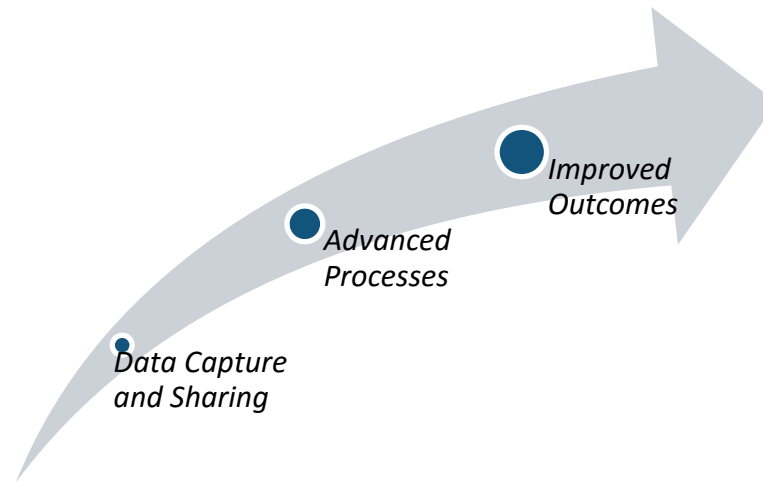
STEPS Framework



HiMSS ValueScore : Model



HiMSS ValueScore : Recognized Value



Recognized Value – Examples

Level 1: Data Capture and Sharing (up to **two** examples)

Efficiencies:

- Administrative & Care Delivery Workflow
- Electronic Prescribing

Safety:

- Clinical Decision Support
- Computerized Provider Order Entry

Data Sharing:

- Protection of Patient Health Information

Data Reporting:

- Public Health and Clinical Data Registry

Patient Education/Engagement:

- Patient Electronic Access to Health Information



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Davies Award
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2016 Hawai'i Pacific Health

- HPH targeted glycemic control for improvement
- Implemented computer-directed insulin dosing system (CDIDS), created and standardized inpatient glycemic management processes and integrated glucose devices
- In 18 months following staggered adoption, CDIDS utilization increased to more than 90% of titratable IV insulin infusions
- 83% of glucose values for patients on CDIDS were within normal range compared to 59% for patients not on CDIDS

Recognized Value – Examples

Level 2: Advanced Processes (up to **three** examples)

Efficiencies: <ul style="list-style-type: none">• Throughput of Congested Hospital Spaces (e.g. ED, OR, ICU)• Reduction of Waiting Time (e.g. Clinics, ED)
Safety: <ul style="list-style-type: none">• Reduction of Infection (e.g. Central Line, Catheter, Ventilator Dependent Pneumonia)
Business Efficiencies: <ul style="list-style-type: none">• Revenue Cycle Management
Data Sharing: <ul style="list-style-type: none">• Improved Tracking of Chronic Disease Management
Enhanced Communication: <ul style="list-style-type: none">• Health Information Exchange
Prevention: <ul style="list-style-type: none">• Population Health Initiatives
Patient Education/Engagement: <ul style="list-style-type: none">• Coordination of Care through Patient Engagement



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2015 Centura Health

- Centura had a total of 510 falls in 2011 and 2012, with 53% of these patients considered to be in the moderate fall risk.
- In 2012, Centura's Nurse Practice Council adopted Hendrich II Fall Risk Model. The tool became required documentation in the EHR.
- Outcomes;
 - Decreased falls with injury rate by 24%
 - Avoided 75 falls in the past two years
 - Avoided an estimated \$1,021,500 in cost and 472 additional hospital days

Recognized Value – Examples

Level 3: Improved Outcomes (up to **three** examples)

Efficiencies:
<ul style="list-style-type: none">• Use of Blood and Blood Products
Quality of Care:
<ul style="list-style-type: none">• 30 day Readmission Rate
Data Sharing:
<ul style="list-style-type: none">• Early detection of Infectious Disease Outbreaks
Evidence Based Medicine:
<ul style="list-style-type: none">• Change in Practice from the use of Clinical Analytics
Patient Education/Engagement:
<ul style="list-style-type: none">• Use of Patient Generated Health Data



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2016 Mercy Health System

- Mercy used a cost-per-case perioperative dashboard to identify key cost and outcomes data related to surgical procedures
- 210,000 surgical procedures annually led to surgical supplies and implants were second leading cost driver
- Prior to 2012, determining surgical costs were an unstructured manual process
- Outcomes; saved perioperative services team 30,000 hours of manual effort and achieved total savings of \$9.42 million across all perioperative departments

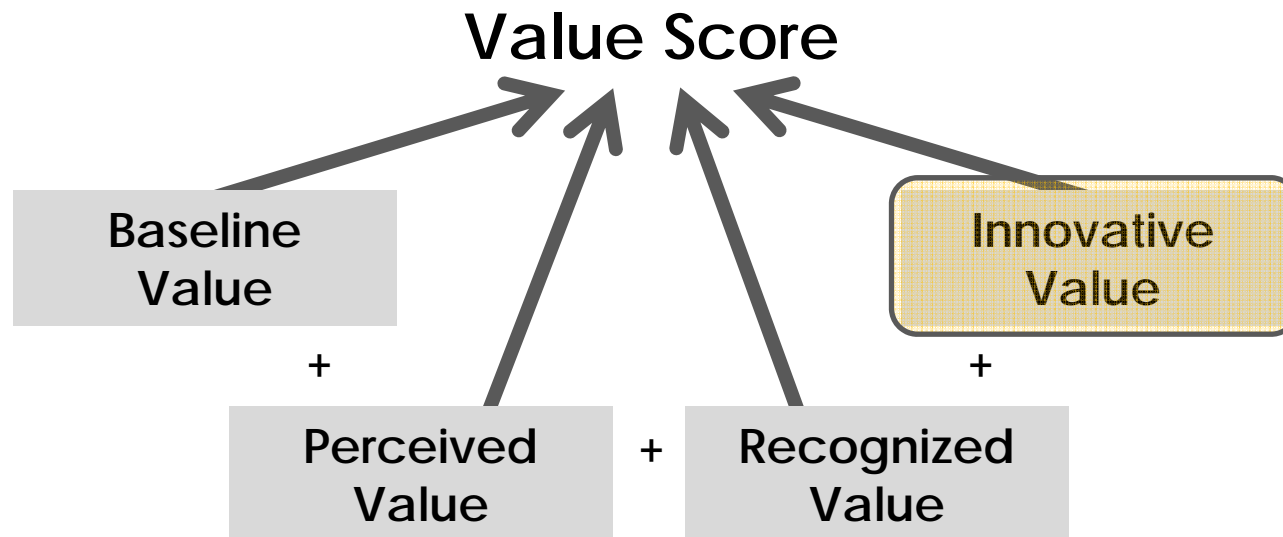


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2016 Horizon Family Medical Group

- Sought to reduce and prevent 30 and 60-day readmissions
- Developed transitional care management plan
- July 2015 readmission rate was 13.60%
- Tracking for one month reduced rate by 1 %
- EMR supported transitional care plan included weekly follow-up for high risk patients
- July 2016 readmission rate was 10.05%

HimSS ValueScore : Model



HiMSS ValueScore : Innovative Value



Use Case Template

- Use Cases Should Demonstrate:
 - Local problem being addressed and intended improvement
 - Design and implementation.
 - Governance, Selection Process, Testing and Field Testing.
 - How was HIT utilized?
 - Value Derived



The Value Score and Report

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HIMSS Value Score and Report for: St. Elsewhere Medical Center

Anywhere, USA
February, 2017

Value Score

74.7

St. Elsewhere Medical Center reflects an organization with robust evidence supporting the value of their health IT investments.

Baseline Value Score:	80.0%
Perceived Value Score:	81.0%
Recognized Value Score:	64.1%
Innovative Value Score:	93.1%

www.himss.org/value-score

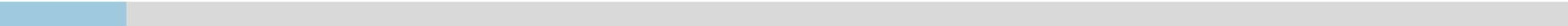


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QUESTIONS?



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