

21st Annual Summer Institute in Nursing Informatics

Real Meaningful Use: Evolution or Revolution?



Ten Steps for Creating Your Roadmap to Meaningful Use

Real World Experiences Panel

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We will cover ...

- 10 Steps for Creating your Roadmap to Meaningful Use
- Incentive Opportunity
- Project Governance – Clinical vs. IT
- Adoption and Transformation Support Model
- Tracking the "meaningful use" criteria by looking at the technology, adoption & measurement components

Aurora Health Care at a Glance

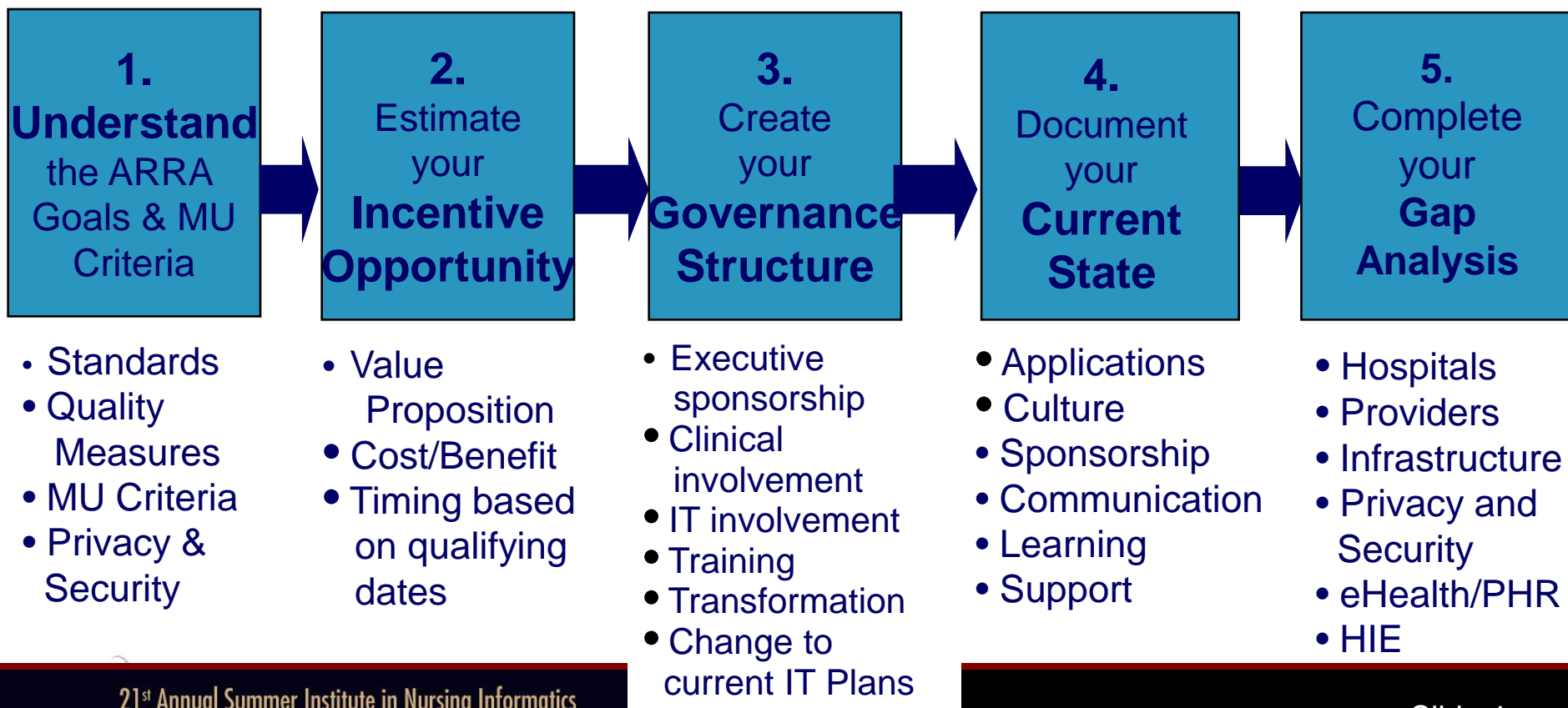


- Integrated Delivery Network
- Private, non-profit, teaching
- 15 Hospitals (60-900 beds)
- 120 Clinics /18 Quick Care Clinics
- 110 Retail Pharmacies
- Home Health Services
- Hospice Services
- Laboratory Services
- 30,000 employees
- 3,700 physicians on staff
- 1,200 employed physicians
- Over 6,000 nurses
- \$4 billion annual revenue
- 0.5 million IP days/year
- 1.2 million OP visits/year
- 250,000 ED visits/year
- 3 million clinic visits/year
- 300,000 Home visits/year
- 5.4 million prescriptions/year

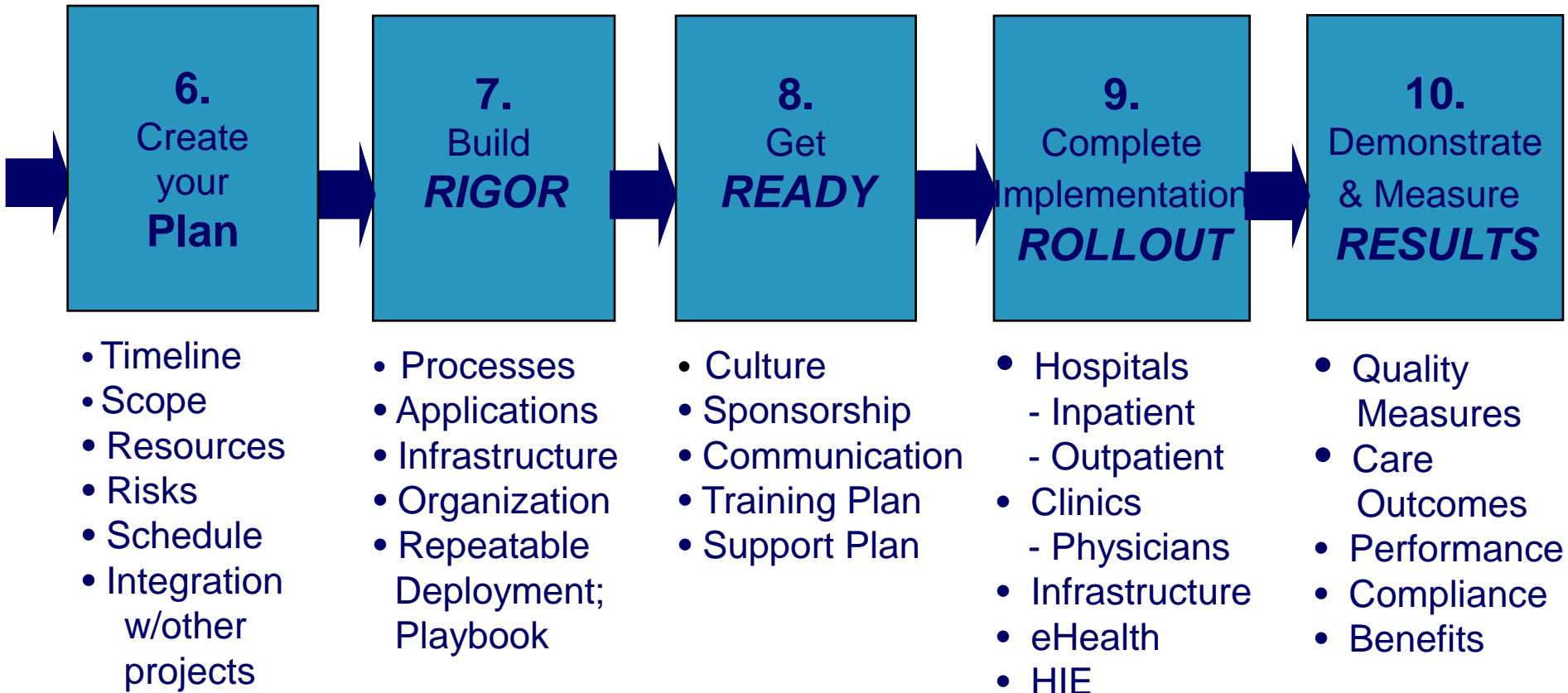
*Aurora Health Care
Patient Service Market
and Market Groups*

10 Steps for Creating your Roadmap to Meaningful Use

Improving Quality of Care by Leveraging the HITECH Stimulus Package Incentives



10 Steps for Creating your Roadmap to Meaningful Use

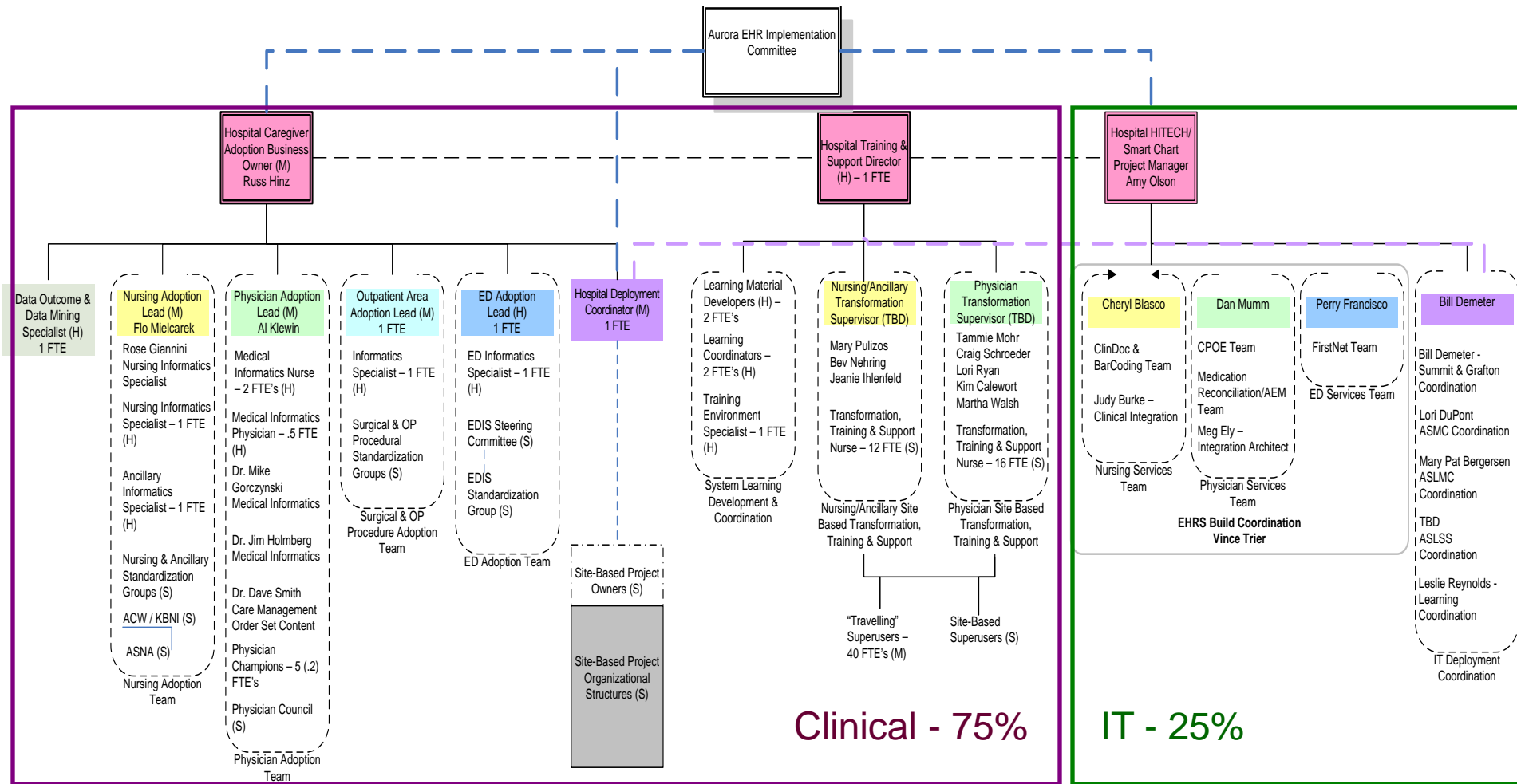


Aurora Health Care
HITECH Stimulus Funds by Patient Service Market Phase
FYE Dec 31 -11,12,13,14,15,16,17

Patient Service Market	# of qualified Physicians	2011	2012	2013	2014	2015	2016	2017	Total
Greater Green Bay									
Aurora BayCare Medical Center			917,160	687,870	458,580	229,290			2,292,900
Medicare Physician North (Greater Green Bay)	75		1,069,572	770,038	536,208	280,128	143,863		2,799,810
Medicare Physician - BayCare	48			720,000	576,000	384,000	192,000	96,000	1,968,000
Total	123		1,986,732	2,177,908	1,570,788	893,418	335,863	96,000	7,060,710
Manitowoc									
Aurora Medical Center - Manitowoc Co.				1,455,207	1,091,406	727,604	363,802		3,638,019
Medicare Physician Manitowoc	32			417,240	342,240	235,396	120,615	62,008	1,177,499
Total	32			1,872,447	1,433,646	963,000	484,417	62,008	4,815,518
Oshkosh and Fond du Lac									
Aurora Medical Center - Oshkosh		1,102,973	827,230	551,487	275,743				2,757,433
Medicare Physician - Oshkosh & Fond du Lac	69			880,519	721,754	503,859	265,267	133,904	2,505,304
Total	69	1,102,973	827,230	1,432,006	997,497	503,859	265,267	133,904	5,262,737
Sheboygan and Calumet									
Aurora Sheboygan Memorial Medical Center				1,109,000	831,750	554,500	277,250		2,772,500
Medicare Physician (Sheboygan)	70			1,323,204	1,074,204	738,883	384,315	194,175	3,714,781
Total	70			2,432,204	1,905,954	1,293,383	661,565	194,175	6,487,281
Greater Milwaukee West									
Aurora Medical Center - Washington Co.			1,273,212	954,909	636,606	318,303			3,183,030
Medicare Physician Greater Milw West (Hartfo)	33		1,408,704	1,009,169	717,693	385,164	202,976		3,723,705
Total	33		2,681,916	1,964,078	1,354,299	703,467	202,976		6,906,735
Greater Milwaukee East									
Aurora Medical Center - Grafton		1,102,973	827,230	551,487	275,743				2,757,433
Medicare Physicians - Washington Co. AH	272	4,298,272	2,961,210	2,021,670	1,023,289	516,118			10,820,559
Medicare Physician Greater Milw East	107		1,460,676	1,044,674	721,374	376,851	194,331		3,797,907
Physician Medicaid	158	3,357,500	1,343,000	1,343,000	1,343,000	1,343,000	1,343,000		10,072,500
Total	537	8,758,745	6,592,116	4,960,831	3,363,406	2,235,969	1,537,331		27,448,399

**Aurora is estimated to get \$21m in 2011 incentives,
with a total of \$112m potential over 7 years**

Evolving Organizational Chart



SmartChart Adoption & Transformation Support Model

System Resources Dedicated to Support Site Adoption & Utilization

System Clinical
Transformation
Team

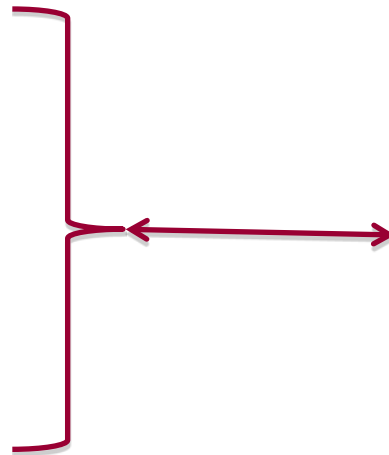
System Information
Technology Team

System Training &
Support Team

Site Resources Required

Site Smart Chart Team

- Executive sponsor (i.e., Hospital Administrator)
- Site Clinical Project Owner (to be named by Administrator)
- Physician Health IT Committee (to be organized by Administrator & VP-MA)
- Dedicated site clinical training & support Resources
- Super-users



Aurora Health Care HITECH Gap Analysis


Look at each MU Criteria (and Gap) in 3 ways:

1. Technology – do you need software installed?
2. Adoption – do you have the required adoption?
3. Ability to Measure – can you measure?




Use these same categories in the
Work Plan for tracking

STATUS							
Technology	Adoption						Ability to Measure
	Hospital A	Hospital B	Hospital C	Hospital D	Hospital E	Hospital F	
Meaningful Use Stage 1 Objective	Yellow	Green	Green	Yellow	Green	Green	Red

























Aurora Health Care Project Tracking Tool

HITECH PROGRAM STATUS - Cerner Hospital Qualification for 2011 as of 3-30-2011				Adoption (%)				
Rule	Meaningful Use Stage 1 Objective	Target	Metro Inc	Summit	Oshkosh	Burlington	Notes	
REQUIRED SET								
1	Computerized provider order entry	Use CPOE for medication orders directly entered by any licensed healthcare professional who can enter orders into the medical record per state, local and professional guidelines	30%	94	99	81	92	
2	Drug-drug, drug-allergy	Implement drug-drug and drug-allergy interaction checks	In Place	Y	Y	Y	Y	
3	Record demographics	Record demographics <ul style="list-style-type: none"> ▪ preferred language ▪ gender ▪ race ▪ ethnicity ▪ date of birth ▪ date and preliminary cause of death in the event of mortality in the eligible hospital or CAH 	50%	96	95	95	96	
4	Maintain up-to-date problem list	Maintain an up-to-date problem list of current and active diagnoses	80%	96	97	94	96	
5	Maintain active medication list	Maintain active medication list	80%	97	98	99	99	
6	Maintain active medication allergy	Maintain active medication allergy list	80%	97	98	97	98	
7	Record and chart vital signs	Record and chart changes in vital signs: Height, Weight, Blood pressure, Calculate and display BMI, Plot and display growth charts for children 2-20 years, including BMI	50%	90	90	91	79	
8	Smoking status	Record smoking status for patients 13 years old or older	50%	96	95	99	96	

Aurora Health Care MU Dashboard

	Measurement accurate, on pace to meet target
	Issue with current measurement
	Measurement accurate, target not met

Core Metrics Set (All metrics must be met)

Health Outcomes Policy Priority	ID	Meaningful Use Category	Measure Target	Stage 1 Objective	Stage 1 Measure	Site	Measurement	Indicator
Improving quality, safety, efficiency, and reducing health disparities	1	CPOE - Computerized provider order entry	30 %	Use CPOE for medication orders directly entered by any licensed healthcare professional who can enter orders into the medical record per state, local and professional guideline	More than 30% of unique patients with at least one medication in their medication list seen by the EP or admitted to the eligible hospital's inpatient or emergency department (POS 21 or 23) have at least one medication order entered using CPOE	St Lukes Medical Center	99.2 %	
						St Lukes South Shore	98.6 %	
						Aurora Sinai Medical Center	82.1 %	
						Aurora Medical Center Summit	98.7 %	
						Aurora Medical Center Oshkosh	80.9 %	
						Memorial Hospital of Burlington	92 %	
	2	Drug-drug and drug allergy interaction	Enabled	Implement drug-drug and drug allergy interaction checks	The eligible hospital has enabled this functionality for the entire EHR reporting period	St Lukes Medical Center	Yes	
						St Lukes South Shore	Yes	
						Aurora Sinai Medical Center	Yes	
						Aurora Medical Center Summit	Yes	
						Aurora Medical Center Oshkosh	Yes	
						Memorial Hospital of Burlington	Yes	
	3	Demographics	50 %	Record demographics: preferred language, gender, race, ethnicity, date of birth, date and preliminary cause of death in the event of mortality in the eligible hospital or CAH	More than 50% of all unique patients admitted to the eligible hospital's inpatient or emergency department (POS 21 or 23) have demographics recorded as structured data	St Lukes Medical Center	95.8 %	
						St Lukes South Shore	96.2 %	
						Aurora Sinai Medical Center	97.3 %	
						Aurora Medical Center Summit	95.4 %	
						Aurora Medical Center Oshkosh	94.7 %	
						Memorial Hospital of Burlington	95.8 %	
	4	Problem List	80 %	Maintain an up-to-date problem list of current and active diagnoses	More than 80% of all unique patients admitted to the eligible hospital's inpatient or emergency department (POS 21 or 23) have at least one entry or an indication that no problems are known for the patient recorded as structured data	St Lukes Medical Center	96.3 %	
						St Lukes South Shore	98.3 %	
Aurora Sinai Medical Center						93.3 %		
Aurora Medical Center Summit						97.2 %		
Aurora Medical Center Oshkosh						93.5 %		
Memorial Hospital of Burlington						96.1 %		

Hospital Summary

AURORA MEDICAL CENTER GRAFTON



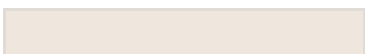




Objectives

Core Set (8/9)	Goal	Score	
Maintain an Active Problem List	80%	87%	1,957 of 2,235 Patients
Maintain an Active Medication List	80%	98%	2,210 of 2,235 Patients
Enter Orders Using CPOE	30%	96%	1,553 of 1,617 Patients
Provide an Electronic Copy of Discharge Instructions	50%	0%	0 of 8 Requests
Record Smoking Status	50%	98%	2,020 of 2,053 Patients
Record Vitals	50%	95%	2,001 of 2,104 Patients
Maintain an Active Allergy List	80%	98%	2,209 of 2,235 Patients
Record Patient Demographics	50%	98%	2,193 of 2,235 Patients

AURORA MEDICAL CENTER GRAFTON (cont'd)

Quality Measures

Stroke Measures

		Score	Discharges
STK-2: Discharged on Antithrombotic Therapy		93%	29 of 31 (3 Excluded)
STK-3: Anticoagulation Therapy for Atrial Fibrillation/Flutter		57%	4 of 7 (2 Excluded)
STK-4: Thrombolytic Therapy		0%	0 of 2 (32 Excluded)
STK-5: Antithrombotic Therapy By End of Hospital Day 2		96%	26 of 27 (7 Excluded)
STK-8: Discharged on Statin Medication		100%	0 of 0 (34 Excluded)
STK-8: Stroke Education		0%	0 of 21 (0 Excluded)
STK-10: Assessed for Rehabilitation		5%	2 of 34 (2 Excluded)

Meaningful Use System Readiness Review

Live System

Core

Menu

Eligible Professionals

Target Date - 3/1/2011



12 out of 15



9 out of 10

Eligible Hospitals

Target Date - 3/1/2011



11 out of 14



8 out of 10

System Prerequisites

Epic Version



Live on Spring 08 or higher

Hardware



Shadow server status

Potential High Risk Areas

1. Build for hospital quality measures
2. Syndromic surveillance interface
3. Outgoing results interface

Status Legend:



Ready



In Progress

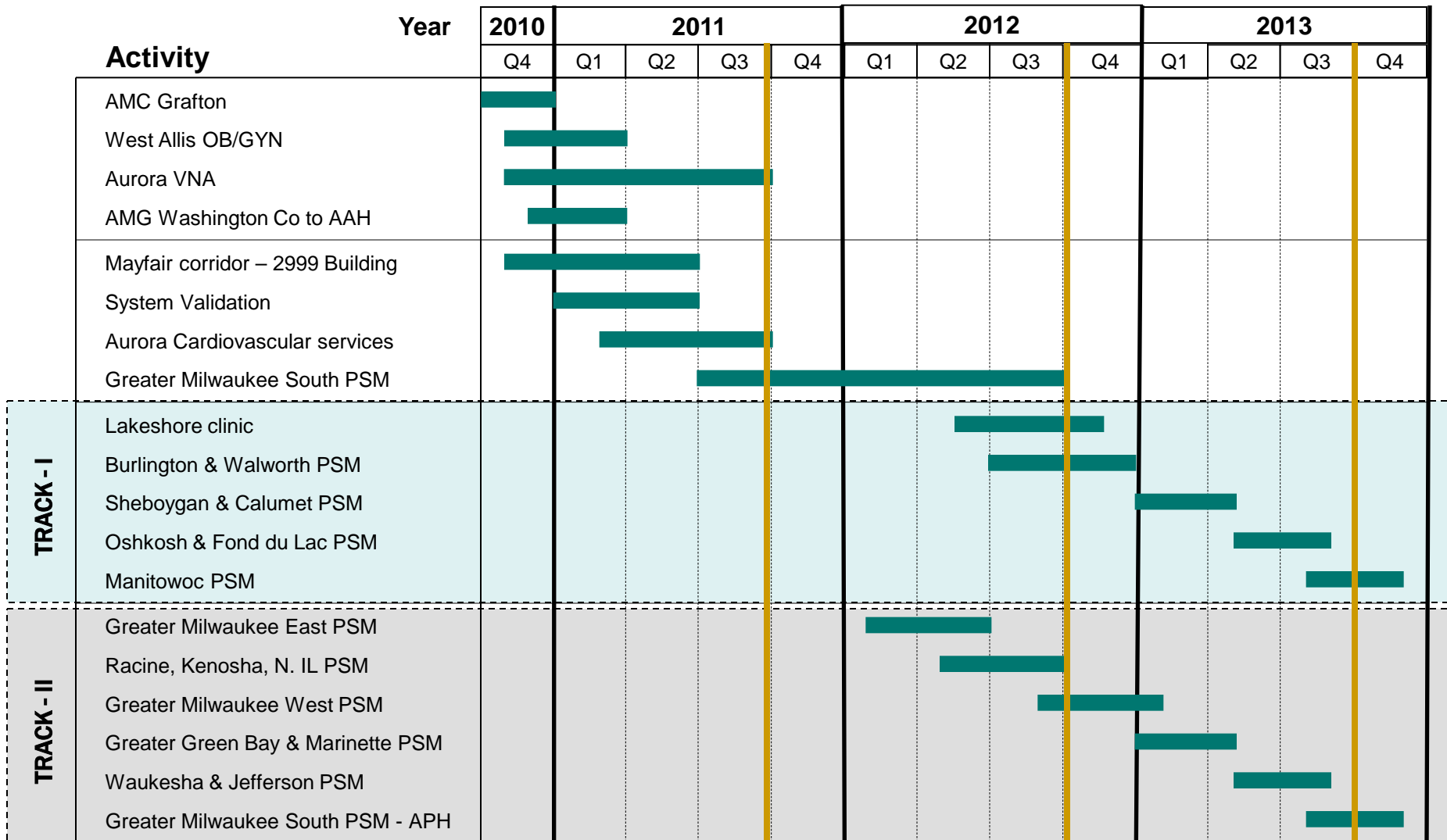


Not Ready

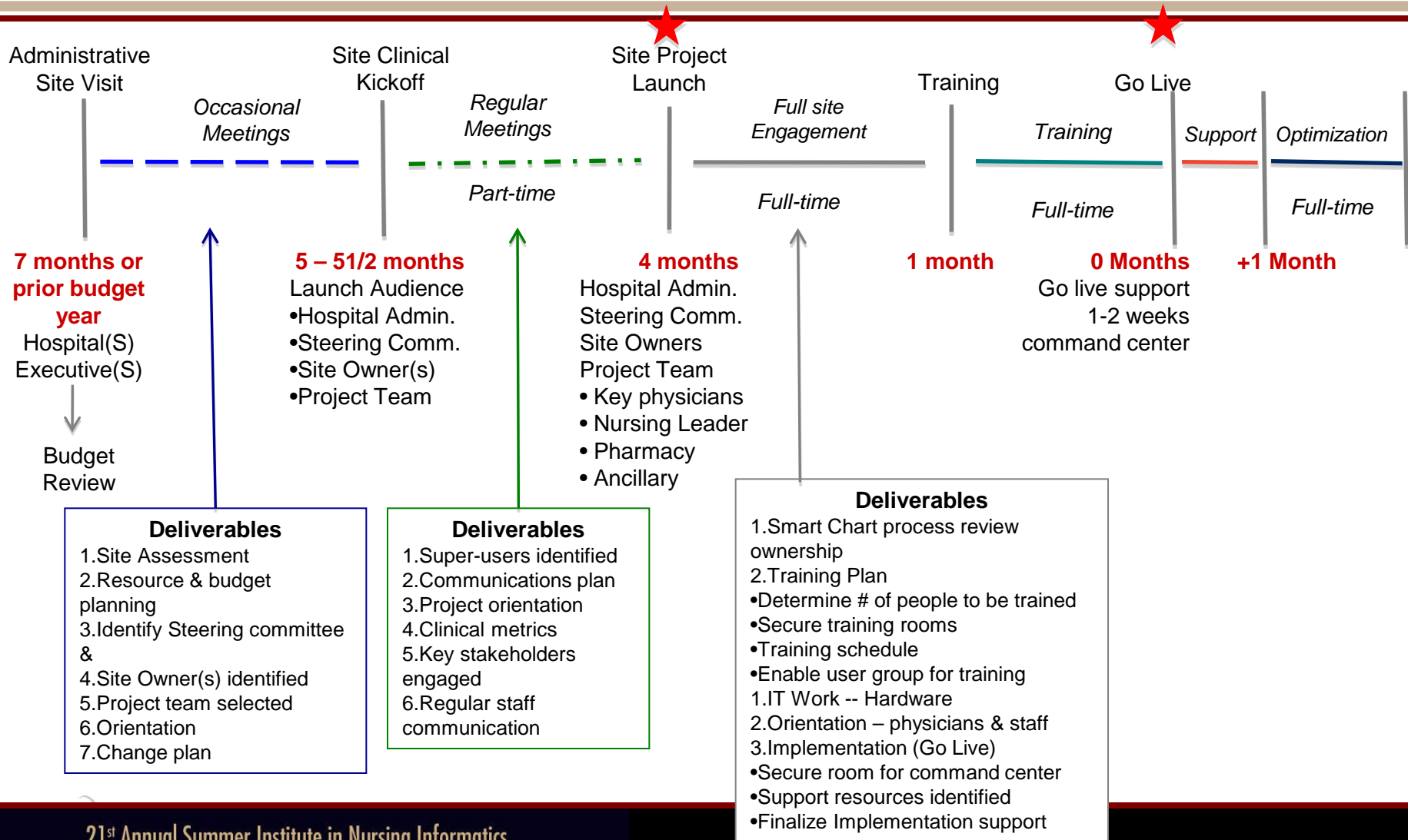


Other System

SmartChart high-level plan



Repeatable Deployment – Critical Path Items



The EHR as an Enabler for Clinical Quality

- Plan and execute the EHR project as a *practice* change that is *facilitated* by technology; and not as an IT implementation
- Technology change takes a supportive role to the people/process/practice change enabled by the technology
- EHR implementation as the *means to an end*, and not as *an end unto itself*
- Be clear about the purpose of the EHR, as demonstrated by the “meaningful use” objectives and quality measures

Focus on Patient and Patient-Centric Care

- Increase patient participation in care – use of a Personal Health Record (PHR), electronic copy of discharge instructions and summary of care
- Interoperability and portability of electronic records – EHR to/from PHR, EHR to/from EHR
- Customizing delivery of information to the patient
- Improving care coordination between all care venues - hospitals, clinics, physicians, home care, pharmacies

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Thank you!

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