

HEALTHCARE

ICD-10: Much more than a Regulatory Mandate July 21, 2010 Presented to the San Francisco Chapter , ISACA IT in Healthcare Day

AUDIT = TAX = ADVISORY



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An Overview of ICD-10 – What is it?

ICD-10 is the **world standard for classifying diseases** for the clinical and epidemiological storage and retrieval of diagnostic information, health services payments, standardized health records, and public health assessments, and it includes compilations of national mortality and morbidity statistics.

The United States is the last of the developed nations to adopt ICD-10. Because **ICD-10** compliance will be required for claims submission and payment, the U.S. implementation effort will be far more complex than it was for other countries.

ICD-10 must be implemented by October 1, 2013.

ICD-10 represents the biggest change in the standard healthcare coding systems in decades. ICD-10 and its transaction precursor, **Version 5010**, **will impact every system**, **process, and transaction** that contains or uses a diagnosis code.

Gartner Research predicts "the effect of ICD-10 on the health care industry will be greater than that of HIPPA and Y2K combined."

The Rand Corporation estimated the cost of implementing ICD-10 at \$425 million to \$1.15 billion in one-time costs and potential benefits to the industry of \$7.7billion over ten years.

Gartner, U.S. Health Insurers Should Start Planning Now for ICD-10 Adoption, 28 June 2007, G00149538, Robert H. Booz. The Rand Corporation, Costs and Benefits of Moving to the ICD-10 Code Sets, 2004



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Comparison of ICD-9 and ICD-10

The following is a comparison between ICD-9 and ICD-10 as well as potential benefits:



- Approximately 24,000 diagnosis and procedure codes that are insufficient to continue to allow for addition of new codes
- Number of characters is 3–5 numeric
- Limitations of underlying data used for patient care improvement, institutional quality reviews, medical research, and reimbursement can become increasingly unreliable

Compliance date for implementation by October 1, 2013

- Approximately 155,000 diagnosis and procedure codes
- Number of characters is 3–7 alphanumeric
- Flexible coding convention that allows new procedures, diagnosis, and technologies to help in being easily incorporated
- Greater specificity of diagnosis and treatment information that can improve quality measurements and patient safety, the evaluation of medical processes and outcomes, and enhance the accuracy of payments for services rendered
- Precise codes to differentiate body parts, surgical approaches, and devices used Use of more robust ICD-10 codes will help support Electronic Health Record's more detailed information requirements



ICD-10

Why ICD-10?

ICD-10 Clinical Modification

Complete Restructuring of Diagnosis and Procedure Codes

ICD-10 Procedure Coding System (ICD-10-PCS)

> Does not replace CPT codes for outpatient

ICD-9-CM (Diagnosis) 5 digits numeric 14,025 unique codes

ICD-10-CM 7 alphanumeric characters 69,101 unique codes

ICD-9-CM (Procedure) 5 digits 3,824 unique codes ICD-10-PCS (In Patient) 7 alphanumeric characters 71,957 unique codes



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Who Must Be Compliant?

The following organizations must become compliant by 2013:

Providers

- Hospitals
- Physicians
- Outpatient facilities
- Home health agencies
- Nursing homes

Health Plans or Payors

• Third-party administrators

Federal and State Agencies

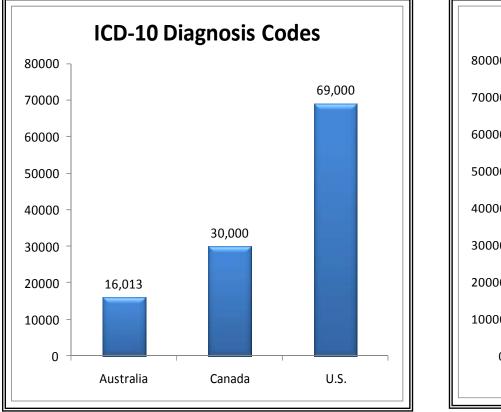
- State Medicaid departments
- Centers for Disease Control

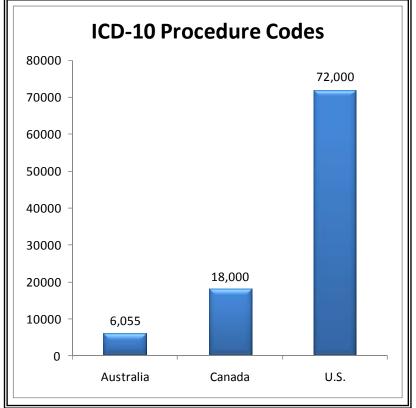




ICD-10 Complexity

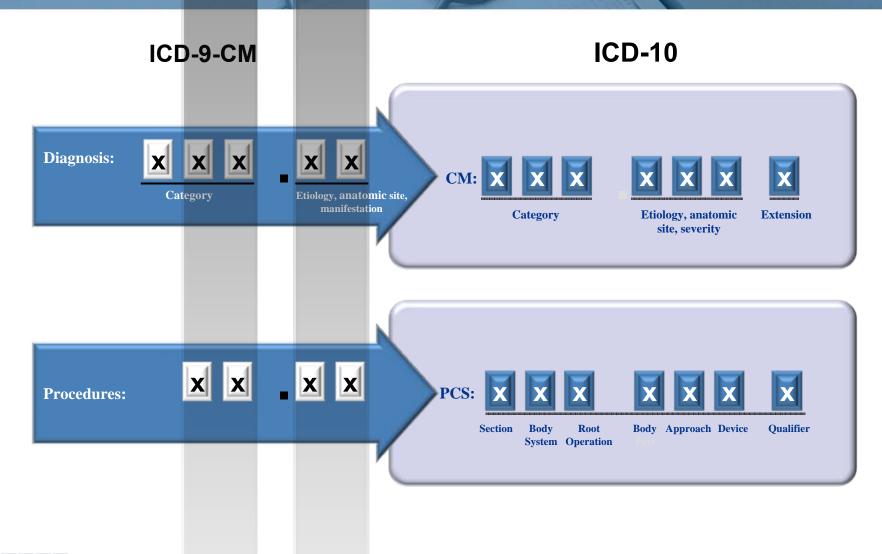
The US ICD-10 classifications are far more complex than those that have been deployed in other countries:







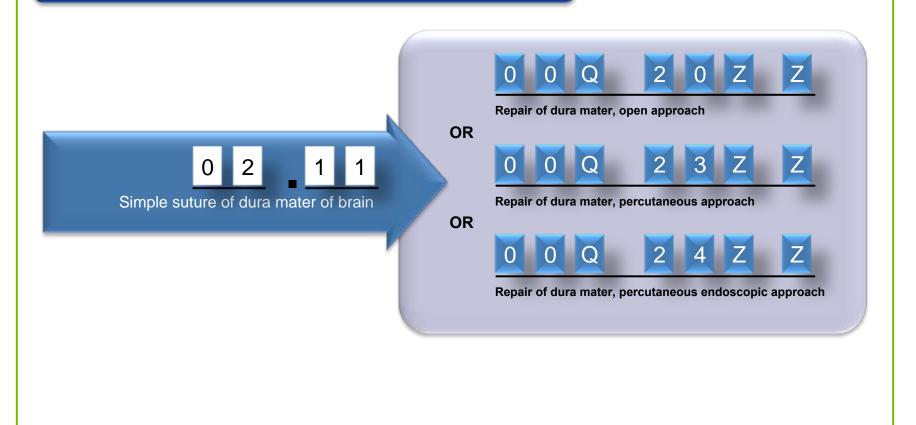
ICD-10 Structural Change





Complexity of Mapping Codes

Approximate Matches: Example of and ICD-9-PCS code with multiple valid translations





Complexity of Mapping Codes (continued)

Combination Matches: An Example of One ICD-10-PCS code that must be linked to multiple ICD-9-CM codes



Dilation of coronary artery, two sites using intraluminal device, percutaneous approach

0066ANDPTCA or coronary atherectomy0410041ANDProcedure on two vessels06AND046ANDInsertion of two vascular stents003006

Insertion of non-drug-eluting coronary artery stents



One-to-Many Relationship

4 ICD-9 Codes

845.00 Sprain and strain of ankle unspecified site

845.01 Sprain and strain of ankle, Deltoid ligament/ Internal collateral ligament

845.02 Sprain and strain of ankle, Calcaneofibular (ligament)

845.03 Sprain and strain of ankle, Tibiofibular (ligament) distal

S93.401A Sprain of unspecified ligament of right ankle - initial encounter S93.401D Sprain of unspecified ligament of right ankle - subsequent encounter S93.401S Sprain of unspecified ligament of right ankle - sequela S93.402A Sprain of unspecified ligament of left ankle - initial encounter S93.402D Sprain of unspecified ligament of left ankle - subsequent encounter S93.402S Sprain of unspecified ligament of left ankle - sequela S93.409A Sprain of unspecified ligament of unspecified ankle - initial encounter S93.409D Sprain of unspecified ligament of unspecified anklesubsequent encounter S93.409S Sprain of unspecified ligament of unspecified ankle- sequela S93.421a Sprain of deltoid ligament of right ankle - initial encounter S93.421d Sprain of deltoid ligament of right ankle – subsequent encounter S93.421g Sprain of deltoid ligament of right ankle -Sequela S93.422a Sprain of deltoid ligament of left ankle - initial encounter S93.422d Sprain of deltoid ligament of left ankle - subsequent encounter S93.422g Sprain of deltoid ligament of left ankle - sequela S93.429a Sprain of deltoid ligament of ankle unspecified - initial encounter S93.429d Sprain of deltoid ligament of unspecified ankle- subsequent encounter S93.429g Sprain of deltoid ligament of unspecified ankle- sequela S93.411A Sprain of calcaneofibular ligament of right ankle - initial encounter S93.411D Sprain of calcaneofibular ligament of right ankle - subsequent

encounter

S93.411S Sprain of calcaneofibular ligament of right ankle – sequela S93.412A Sprain of calcaneofibular ligament of left ankle – initial encounter S93.412D Sprain of calcaneofibular ligament of left ankle – subsequent encounter

S93.412S Sprain of calcaneofibular ligament of left ankle – sequela S93.419A Sprain of calcaneofibular ligament of unspecified ankle – initial encounter

S93.419D Sprain of calcaneofibular ligament of unspecified anklesubsequent encounter S93.419S Sprain of calcaneofibular ligament of unspecified ankle

S93.431A Sprain of tibiofibular ligament of right ankle – initial encounter

S93.431D Sprain of tibiofibular ligament of right ankle – subsequent encounter

S93.431S Sprain of tibiofibular ligament of right ankle – sequela S93.432A Sprain of tibiofibular ligament of left ankle – initial encounter S93.432D Sprain of tibiofibular ligament of left ankle – subsequent encounter

S93.432S Sprain of tibiofibular ligament of left ankle – sequela S93.439A Sprain of tibiofibular ligament of unspecified ankle – initial encounter

S93.439D Sprain of tibiofibular ligament of unspecified ankle– subsequent encounter S93.439S Sprain of tibiofibular ligament of unspecified ankle– sequela S93.491A Sprain of other ligament of right ankle (Internal collateral/talofibular) initial encounter S93.491D Sprain of other ligament of right ankle (Internal collateral/talofibular) subsequent encounter

72 ICD-10 Codes

S93.491S Sprain of other ligament of right ankle (Internal collateral/talofibular) sequela S93.492A Sprain of other ligament of left ankle, initial encounter S93.492D Sprain of other ligament of left ankle subsequent encounter S93.492S Sprain of other ligament of left ankle sequela S93.499A Sprain of other ligament of unspecified ankle initial encounter S93.499D Sprain of other ligament of unspecified ankle subs encounter S93.499S Sprain of other ligament of unspecified ankle (Internal collateral/talofibular) sequela S96.211A Strain of intrinsic muscle and tendon at right ankle and foot level initial encounter S96.211D Strain of intrinsic muscle and tendon at right ankle and foot level subsequent encounter S96.211S Strain of intrinsic muscle and tendon at right ankle and foot level sequela S96.212A Strain of intrinsic muscle and

tendon at left ankle and foot level initial encounter

S96.212D Strain of intrinsic muscle and tendon at left ankle and foot level subsequent encounter

S96.212S Strain of intrinsic muscle and tendon at left ankle and foot level sequela

S96.219A Strain of intrinsic muscle and tendon at ankle and foot level, unspecified side initial encounter

S96.219D Strain of intrinsic muscle and tendon at ankle and foot level.

unspecified side subs encounter S96.219S Strain of intrinsic muscle and

tendon at ankle and foot level, unspecified side

S96.811A Strain of other muscles and tendons at right ankle and foot level initial encounter S96.811D Strain of other muscles and

tendons at right ankle and foot level subsequent encounter S96.811S Strain of other muscles and tendons at right ankle and foot level sequela

S96.812A Strain of other muscles and tendons at left ankle and foot level initial encounter

S96.812D Strain of other muscles and tendons at left ankle and foot level subsequent encounter

S96.812S Strain of other muscles and tendons at left ankle and foot level sequela

S96.819A Strain of other muscles and tendons at ankle and foot level, unspecified side initial encounter

S96.819D Strain of other muscles and tendons at ankle and foot level, unspecified side subs encounter

S96.819S Strain of other muscles and tendons at ankle and foot level, unspecified side sequela

S96.911A Strain of unspecified muscle and tendon at right ankle and foot level

initial encounter S96.911D Strain of unspecified muscle

and tendon at right ankle and foot level subs encounter

S96.911S Strain of unspecified muscle and tendon at right ankle and foot level sequela

S96.912A Strain of unspecified muscle and tendon at left ankle and foot level initial encounter

S96.912D Strain of unspecified muscle and tendon at left ankle and foot level subs encounter

S96.912S Strain of unspecified muscle and tendon at left ankle and foot level sequela

S96.919A Strain of unspecified muscle and tendon at ankle and foot level, unspec. side initial encounter S96.919D Strain of unspecified muscle and tendon at ankle and foot level, unspec. side subs encounter S96.919S Strain of unspecified muscle and tendon at ankle and foot level, unspec. side sequela



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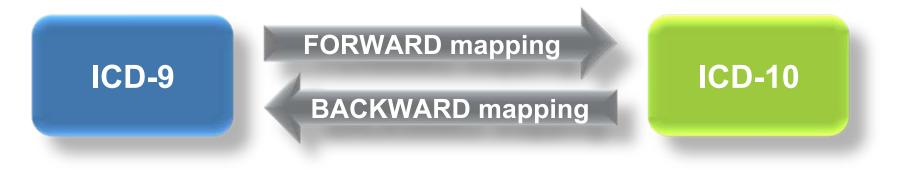
CMS GEMs and CMS Reimbursement Mappings

- General Equivalence Mappings (GEMs) have been created by CMS and CDC with input from both AHA and the AHIMA.
- The GEMs are forward and backward mappings between the ICD-9-CM and the ICD-10 coding system, also referred to as "crosswalks."
- GEMs are redesigned to go both directions similar to a Spanish--English and English--Spanish dictionary.
- There is not a one-to-one match between ICD-9-CM and ICD-10 for the following reasons:
 - There are new concepts in ICD-10 that are not present in ICD-9-CM
 - For a small number of codes, there is no matching code in the GEM
 - There may be multiple ICD-9-CM codes for a single ICD-10 code
 - There may be multiple ICD-10 codes for a single ICD-9 code

Source: CMS Second Series "General Equivalent Mappings"



CMS GEMs and CMS Reimbursement Mappings (continued)



- Crosswalks are a complex but necessary solution.
- Crosswalks require a significant level of validation.
- Mutual agreement with key business partners on mapping logic will be required.
- Different crosswalks will create different impacts on reimbursement.



ICD-10 Has Far-Reaching Impacts Within the Payor Organization

ICD-10 is <u>not</u> an IT or vendor solution event. Rather...

Many business areas, systems, processes, and tools are affected

Billing and Claim Payment

Trend Analysis

External Reporting

Medical Policies

Financial Reporting

Provider Contracting

Pricing/Underwriting

Disease Management

Outcomes Reporting

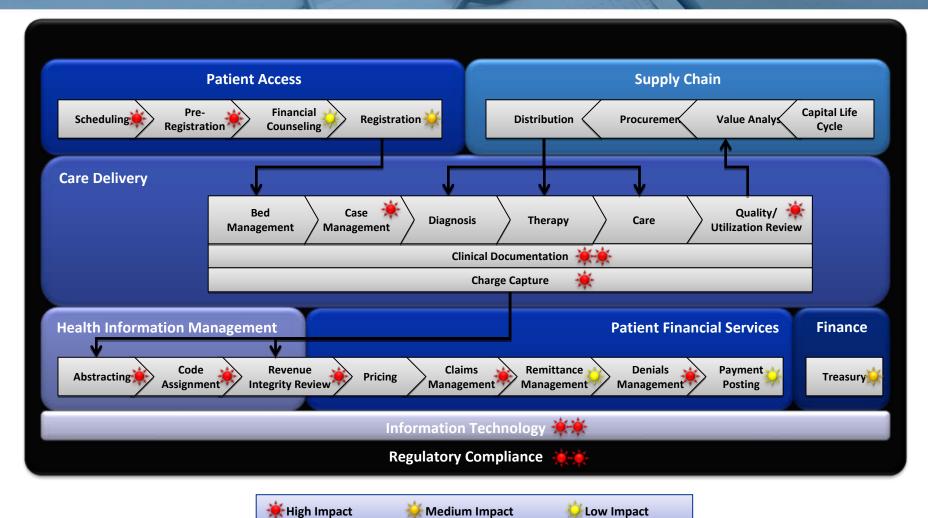
Benefits Reporting

A comprehensive assessment that identifies all affected business areas will result in a successful and optimized remediation



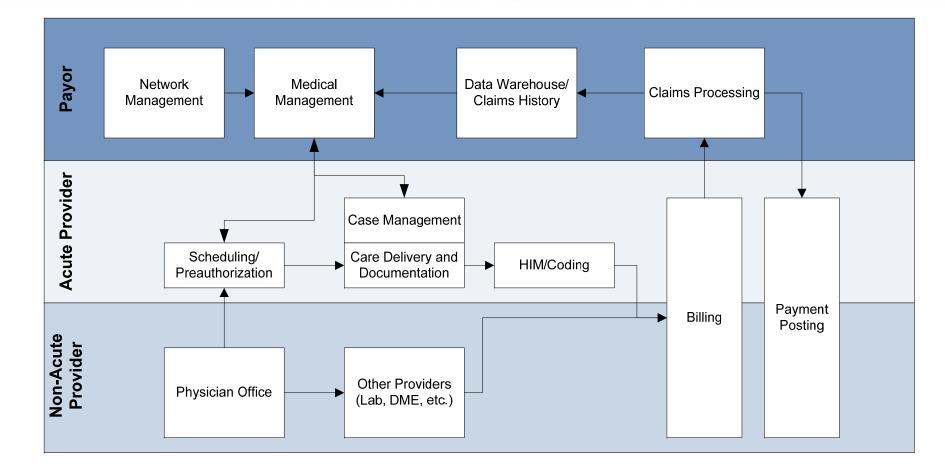
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The Likely Business Process Impacts of ICD-10 for Providers



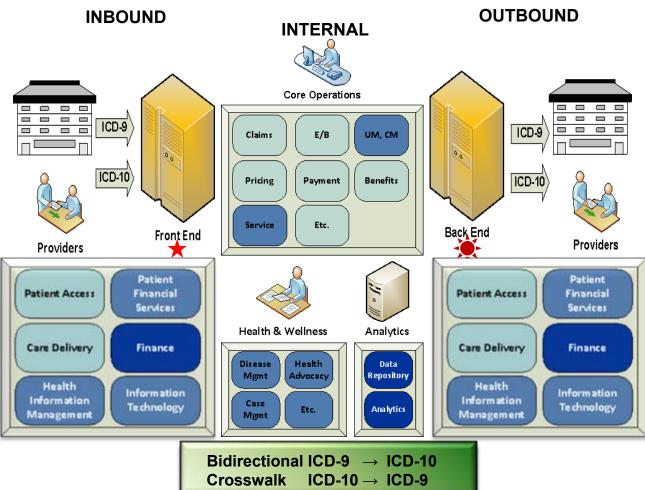


Business Partner Collaboration

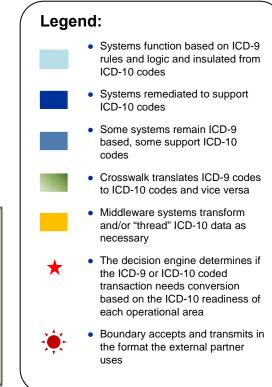




Potential Architectural Approach



ILLUSTRATIVE





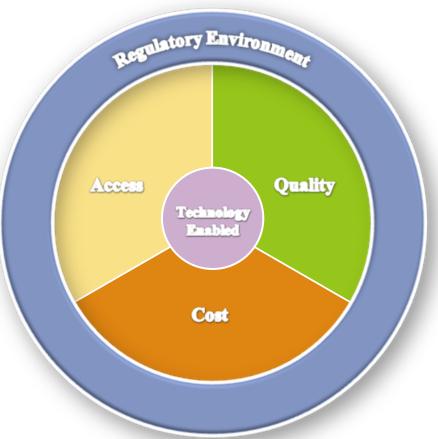
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Where Does ICD-10 Fit In?

The Final Rule, issued by the Department of Health and Human Services (DHHS) on January 16, 2009, identifies seven benefits that are anticipated to result from the transition to ICD-10:

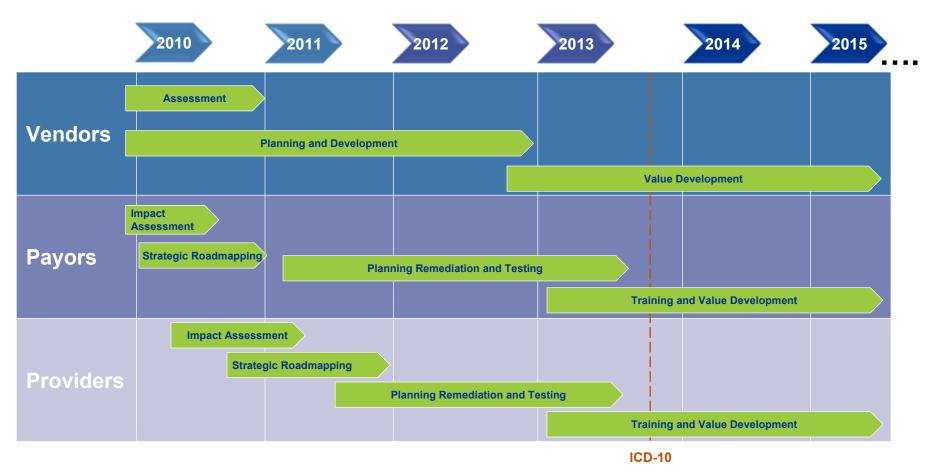
- More accurate payments for new procedures
- Fewer rejected claims
- Fewer improper claims
- Better understanding of new procedures
- Improved disease management
- Better understanding of health conditions and healthcare outcomes

Harmonization of disease monitoring and reporting worldwide



KPMG's Perception of the ICD-10 Implementation Time Line

The focus of ICD-10 within each segment of the healthcare industry will evolve over the next five years.



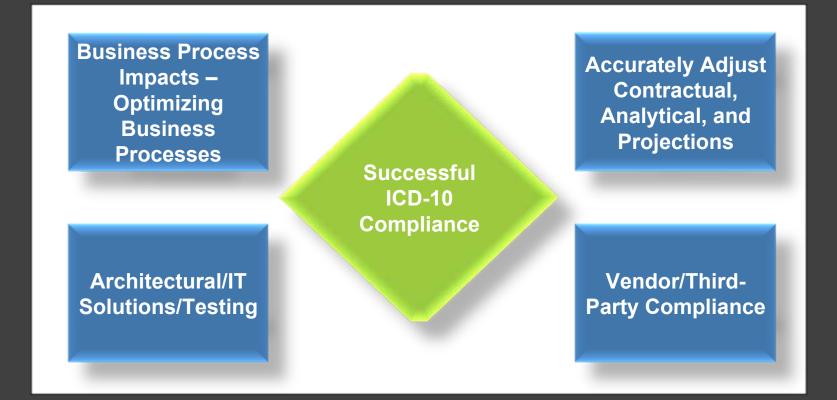


ICD10 – Assess Impact





Areas for Consideration Regarding ICD-10 Compliance Strategy

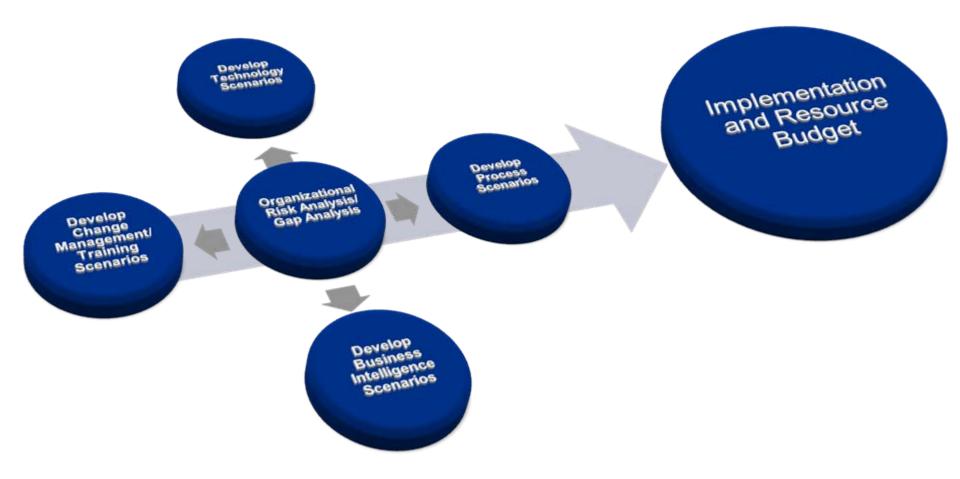


Training, Education, Communication, Change Management, Issue Resolution



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ICD10 – Identify Strategic Options





Varying Strategies of Compliance

	Minimum	Moderate	Optimized
Return	 Achieve basic compliance Lower level of investment 	 Achieve compliance Enhance business processes Achieve some positive returns 	 Achieve larger savings Realize improved accuracy of reporting, processing, and trending Implement ICD-10 throughout the entire
Example Activities	 High reliance on crosswalks with limited native ICD-10 processing Minimal strategic benefits achieved Minimal to no process improvement 	 Utilize ICD-10 to enhance operations, reporting and analytical tools Advance IT systems and capabilities 	 organization Achieve accuracy of data reporting and pricing Evaluate new and emerging strategic relationships



ICD-10 Business Challenges

Industry stakeholders should have a full understanding of the business impacts of ICD-10, such as:

- Business Unit level:
 - Key business processes
 - Current and future operating models
 - Change management and training requirements
 - Resource deployment
 - Financial and budgetary (opportunity costs)
- Enterprise level:
 - Impact to an organizations 2010 business strategy objectives and beyond
 - The development of multiyear plans and budgets to accommodate the ICD-10 capital requirements
 - Potential new capabilities that provide added strategic opportunity and value to the company
 - Clear understanding of the ICD-10 enterprise risks to the organization
 - Multiyear impacts to current and future budgeted projects
- Finance level:
 - Financial statement, balance sheet, and EPS
 - Cash flow and reserve requirements



Success = Transformation Sustainability

Reform and transformation should fundamentally inform strategy and execution

Exceptional execution across current mandates is a requirement

- Meaningful use
- ICD-10
- Market consolidation exposures
- Other transformation drivers

In parallel, working to develop and/or refine a strategy of "transformation sustainability"

• Opportunity cost for not moving in parallel may be material





QUESTIONS?



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