

THE US HEALTH INSURANCE MARKETPLACE

*WHY PLANNING YOUR REIMBURSEMENT STRATEGY IS
CRITICAL FOR YOUR COMPANY'S SUCCESS*

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DAVID BARONE

BOSTON | GERMANY | ISRAEL

www.bmtadvisors.com
www.bmtCROgroup.com

dbarone@bmtadvisors.com

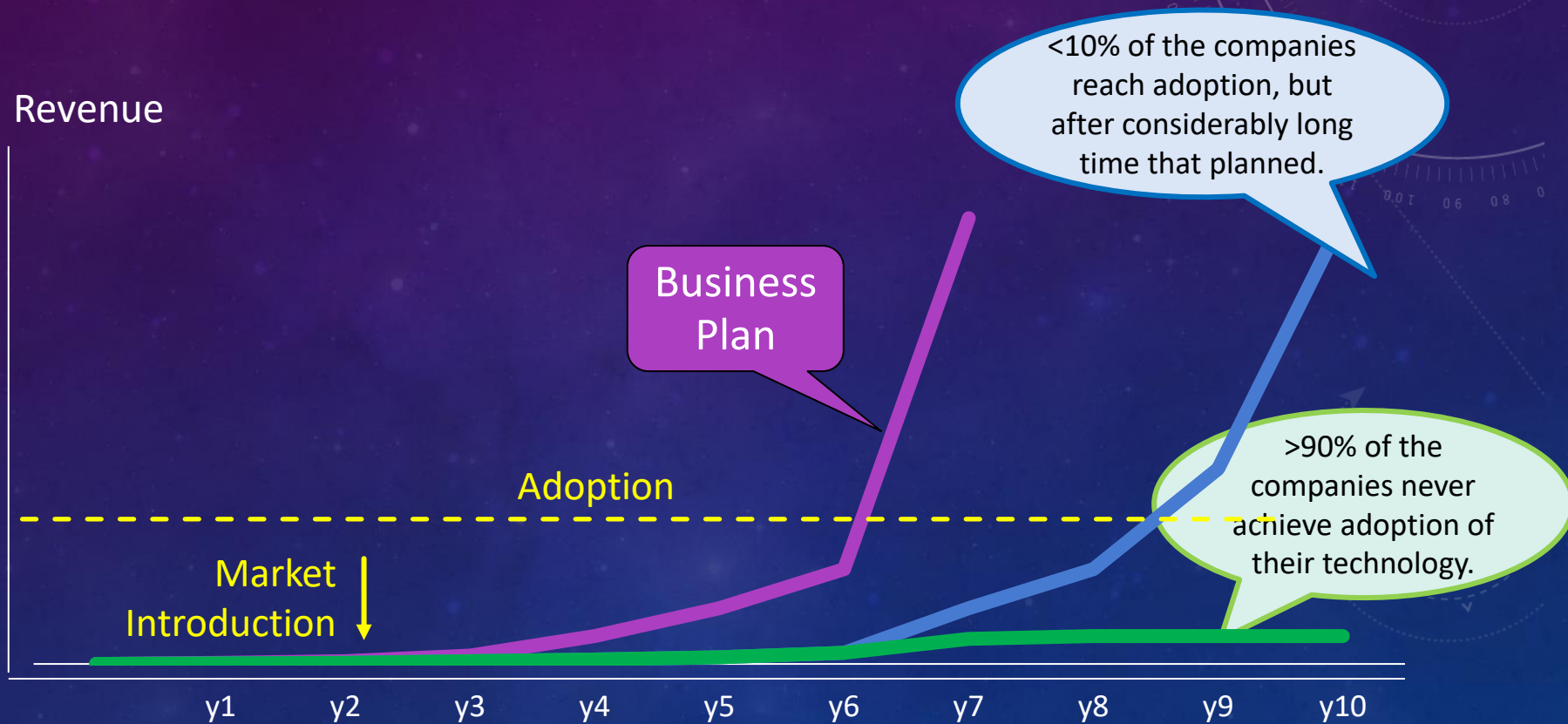
Topics

1. Why 'Reimbursement' is important?
2. The US healthcare system (overview)
3. Codes and Coverage 101
4. The changing landscape
5. So, what do we need to do?

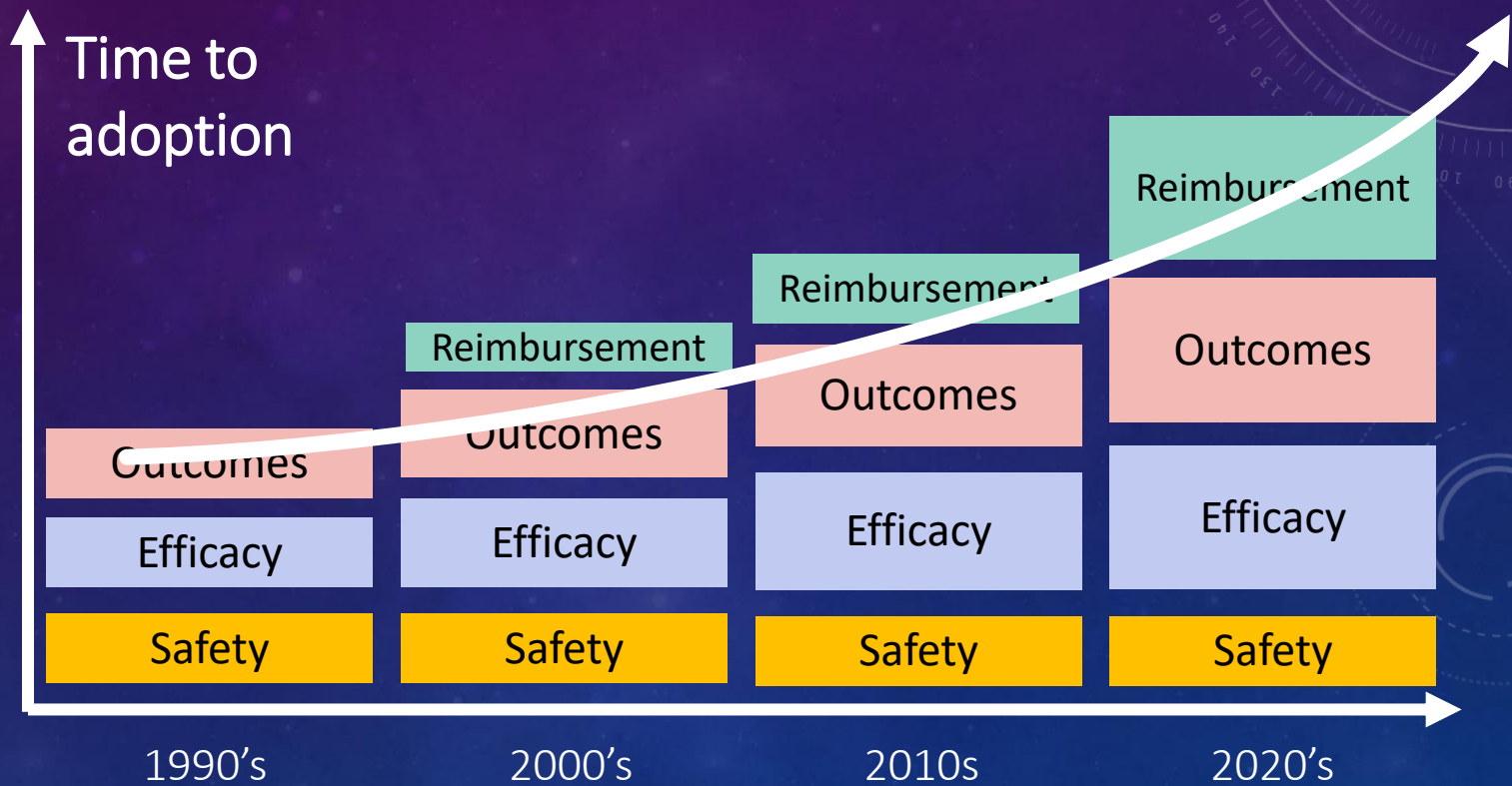


Why 'Reimbursement' is Important?

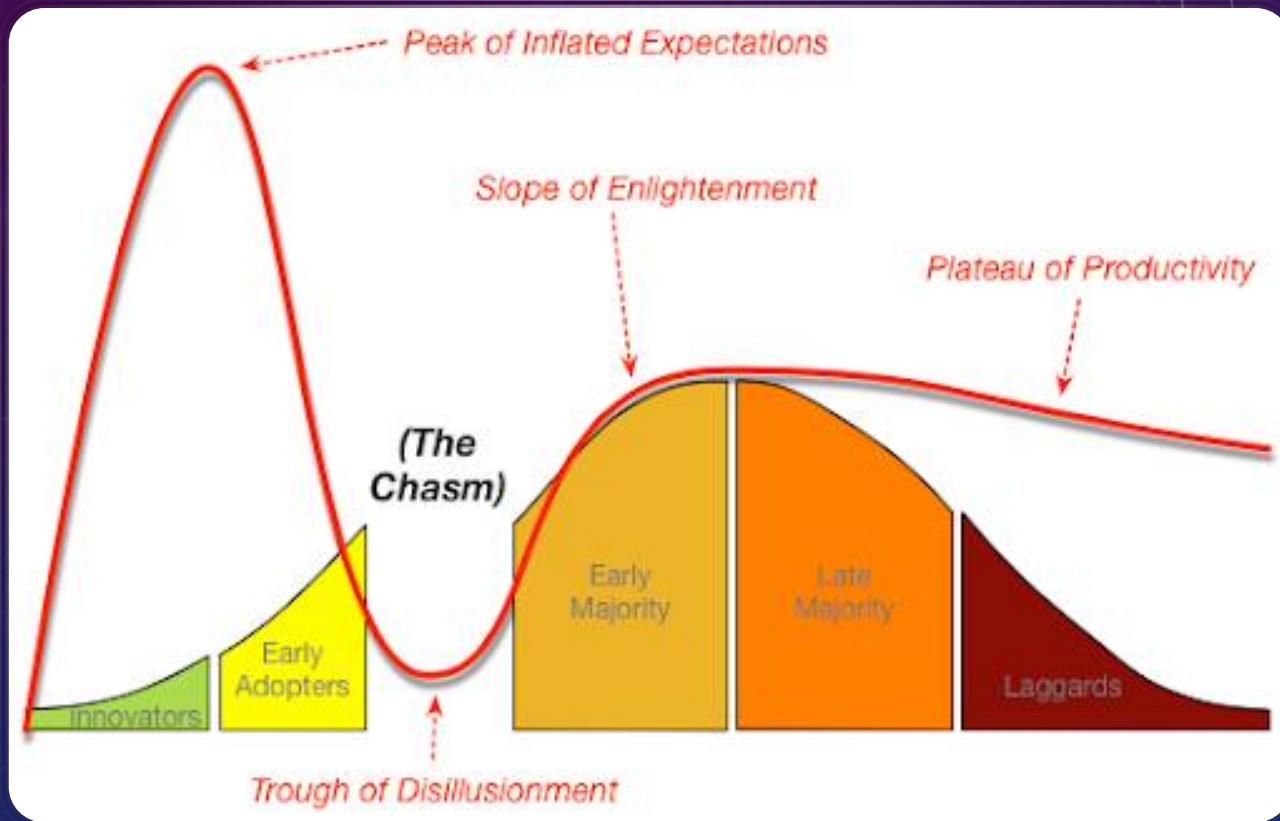
Reality Check - Most Companies Miss Their Plans



While Healthcare Markets Continue to Expand, Time To Market Adoption Continues to Increase

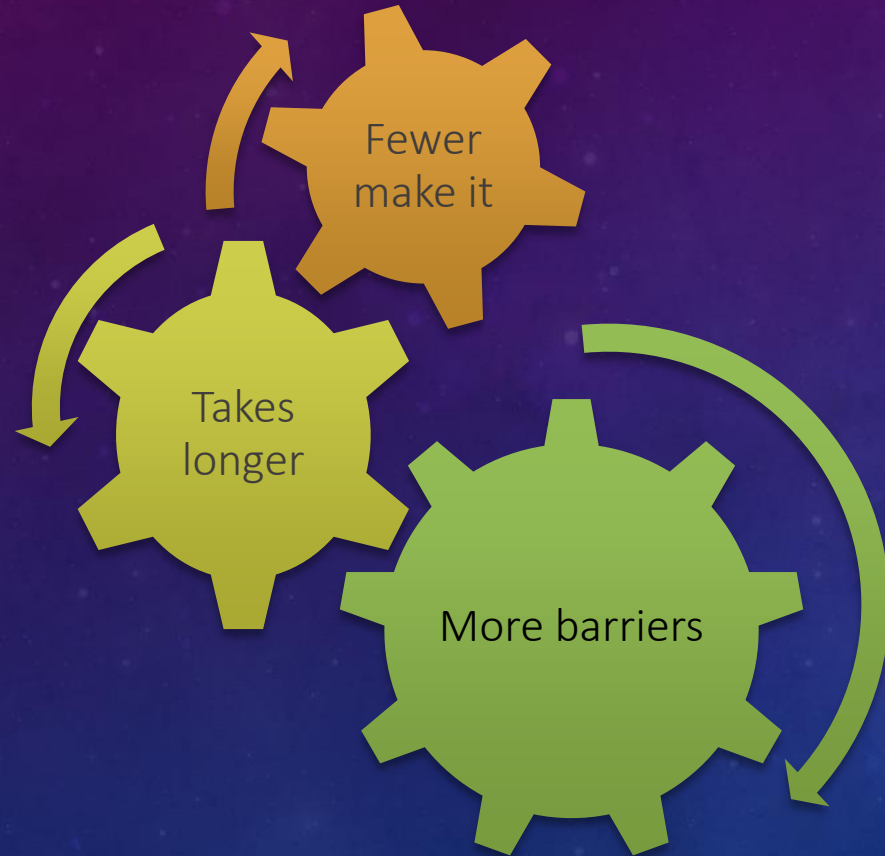


Moore's Technology Adoption Life Cycle



Success with 'early adopters' is not necessarily a predictor for broader market adoption

Considerable Implications to Longer Time-To-Adoption



Delayed revenue

Need for additional funds and financing rounds

Valuations are negatively impacted

Business development initiatives are delayed

Increased risk of new competitors

Reimbursement - a Key Requirement for Adoption of the Technology



**Lack of
reimbursement can
adversely impact
utilization**

**Yet, reimbursement
does not ensure
utilization of the
technology...**

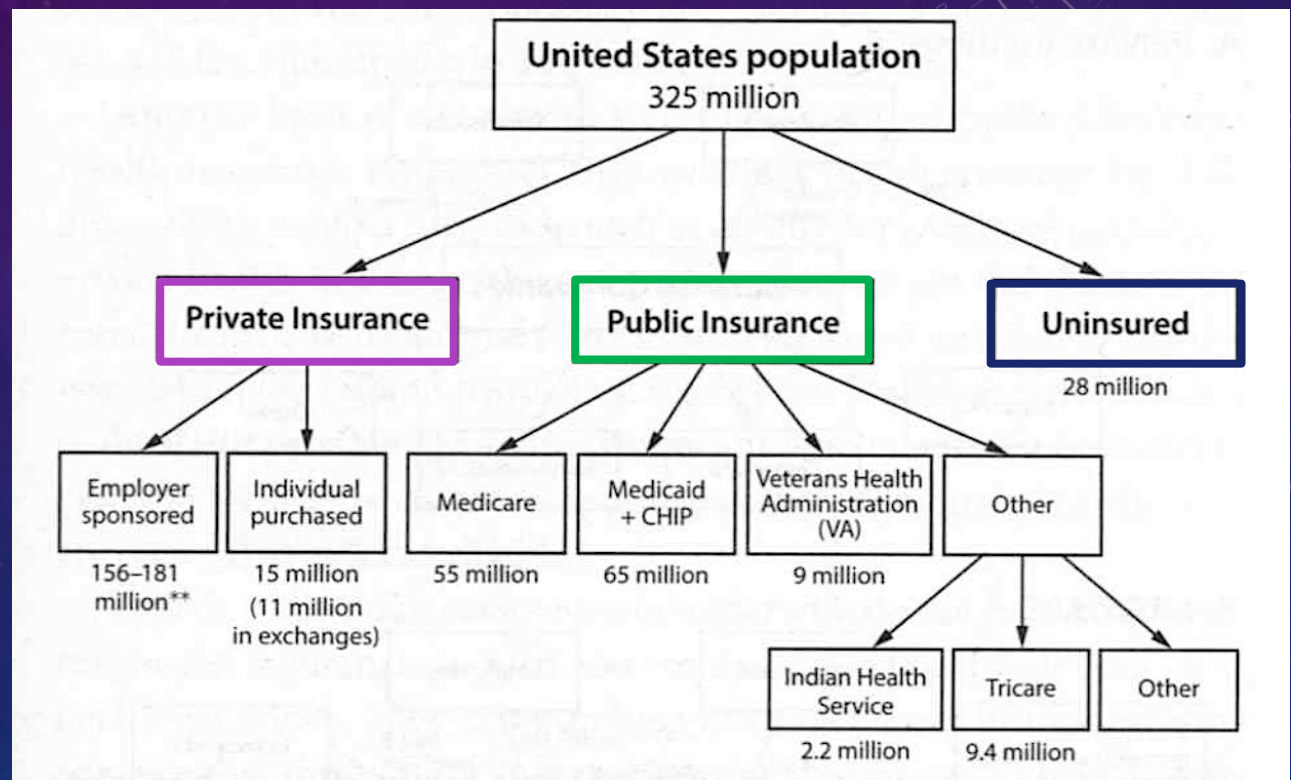
What Does It Mean to 'Have Reimbursement'?

- ✓ The technology or procedure is covered...
- ✓ The coverage is sufficiently broad...
- ✓ The **payment** is appropriate -
covering the costs of physicians, hospitals,
distributors and manufacturer

The US Healthcare System

Healthcare Coverage in the U.S.

Different
insurance
arrangements



Financing Healthcare

\$3.8 trillion / >\$11,000 per person

Government

Federal 28%*

State and local 17%

45%

** including military, Veterans Administration and DoD*

Private

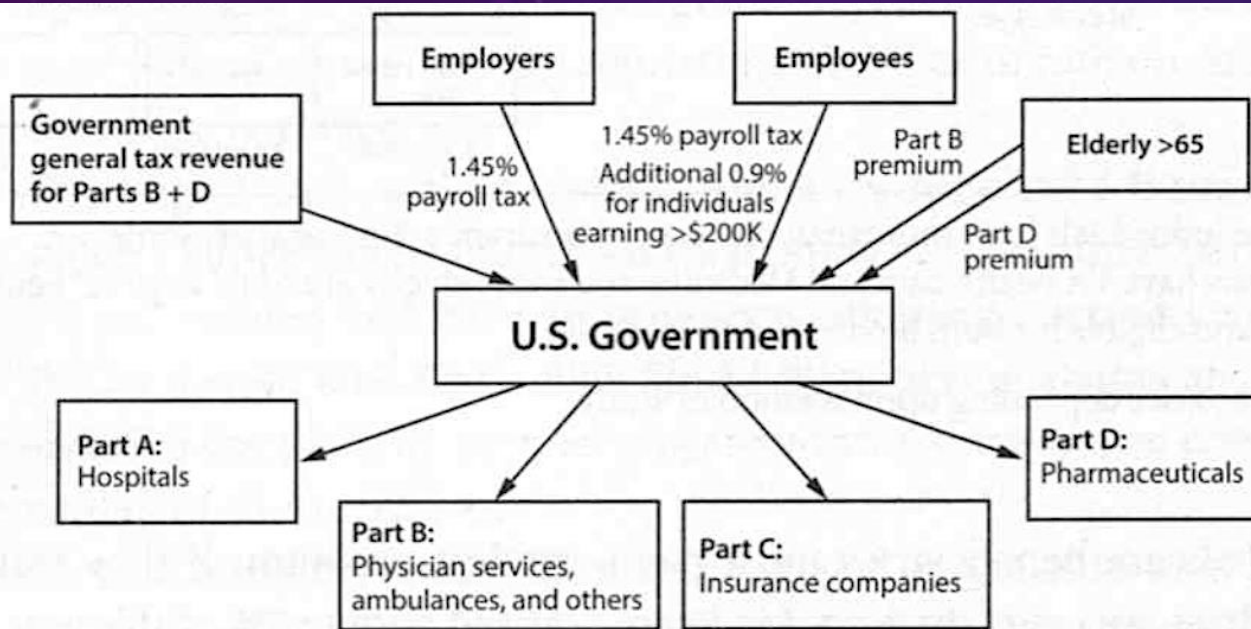
Business 20%

Individuals 28%

Other sources 7%

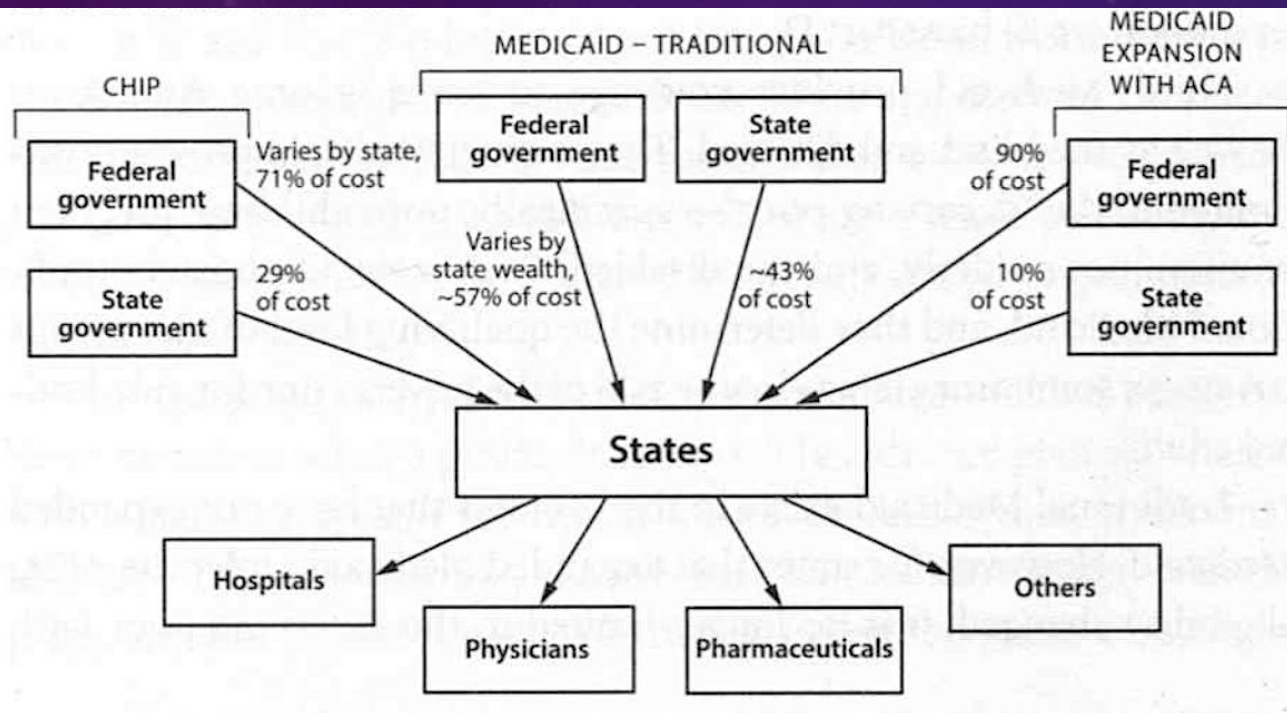
55%

Medicare



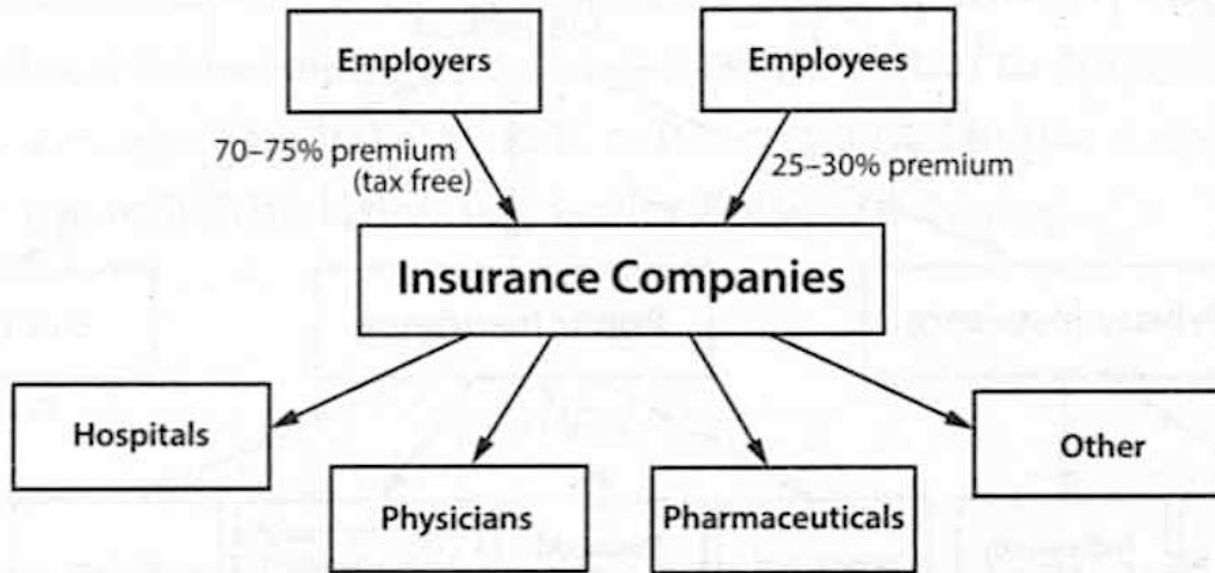
- Federal program
- Covering ~60 million people (18% of the population)
- All people ages >65; 65< with permanent disabilities; end-stage renal disease or Lou Gehrig's disease

Medicaid and CHIP



- A joint federal and state program
- ~62 million (19% of the population)
- People with low income
- Incl. benefits not normally covered by Medicare, like nursing home care and personal care services.

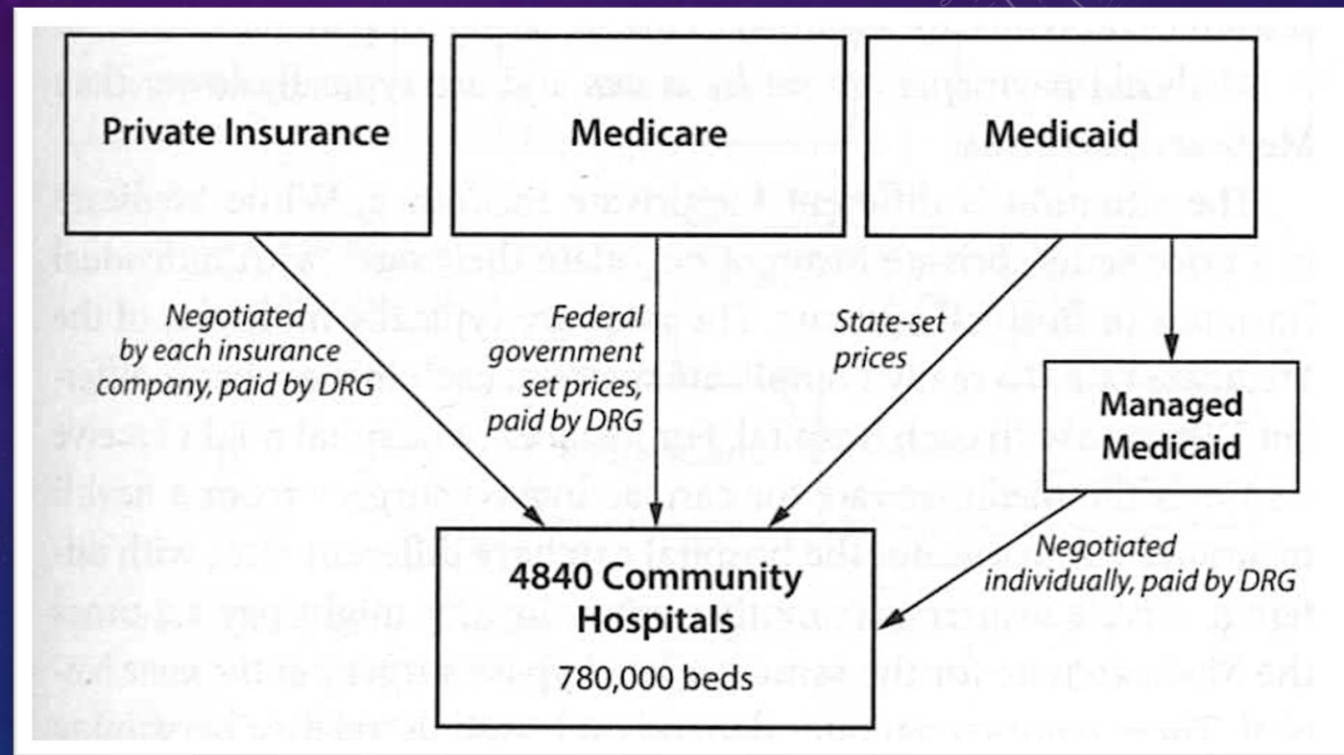
Private Insurance



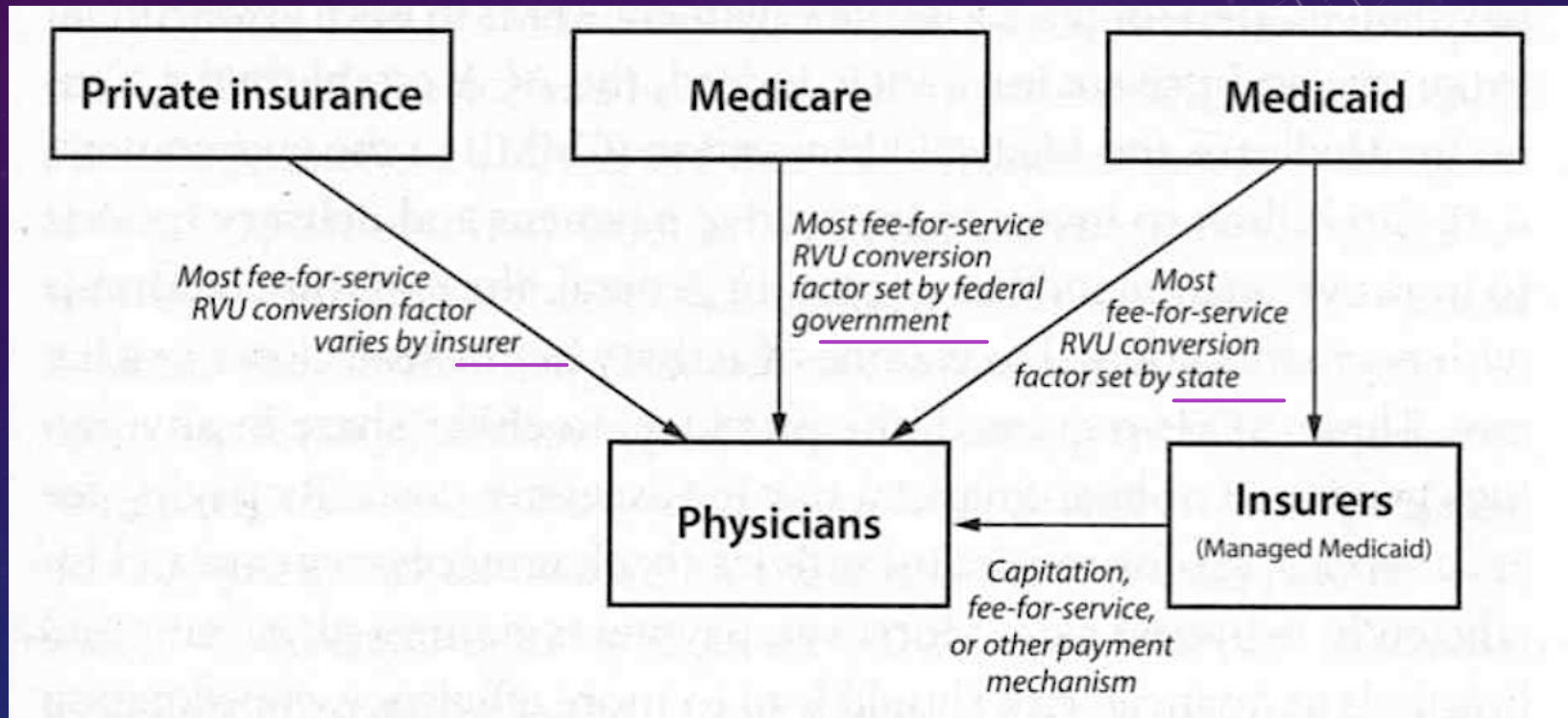
- Employer sponsored: ~153 million people (49% of the population)
- ~19 million (6%) non-group insurance.
- Coverage vary considerably, as each plan sets its own policies
- No insurance: ~33 million people (10% of the population). Out-of-pocket pay or ER / emergency care

Payments to Hospitals

- \$1.1 trillion (~33% of total health care spending)
- Most payments are based on DRGs
- >750 MS-DRGs
- DRG payments exclude:
 - Physician services
 - Outpatient care

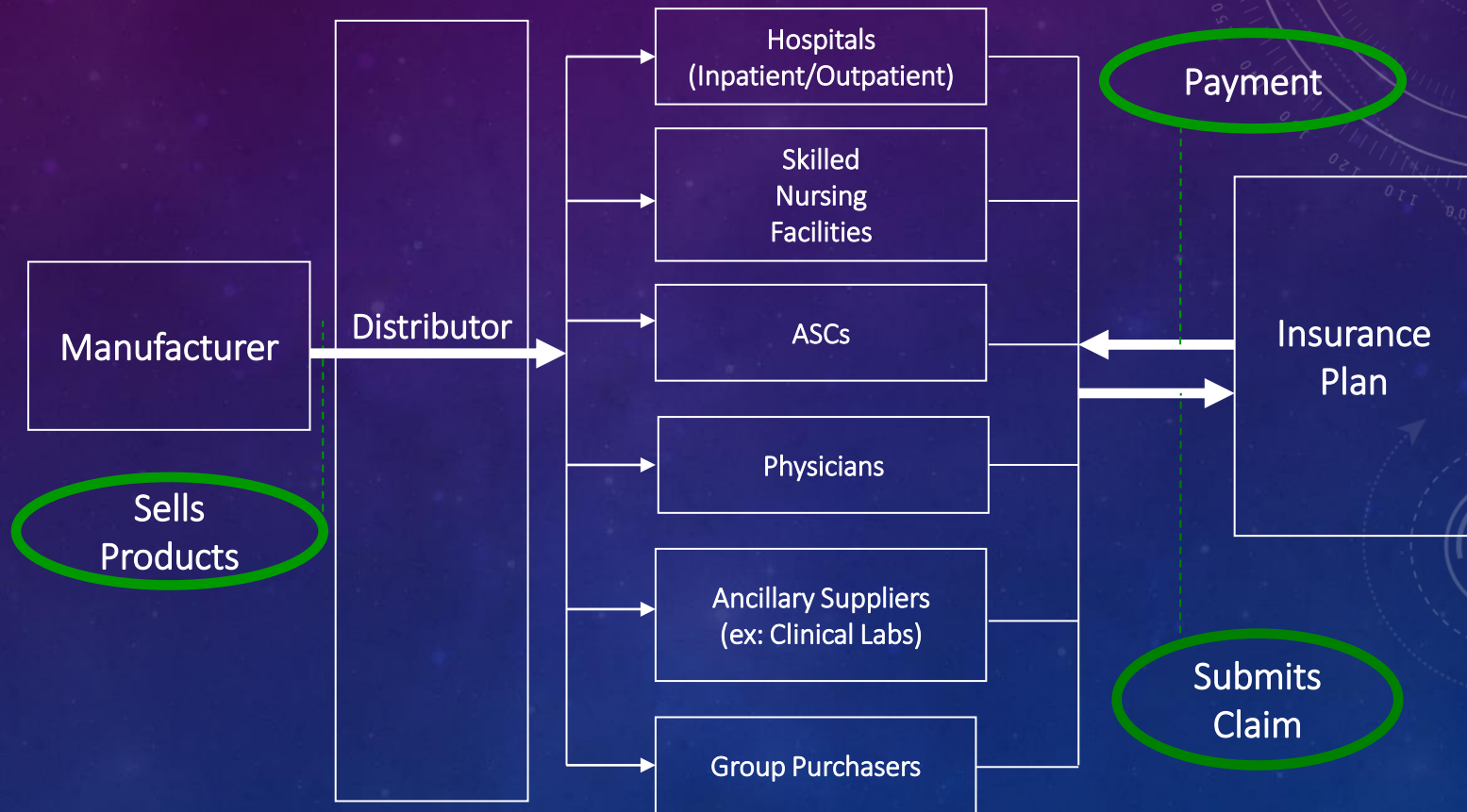


Payments to Physicians

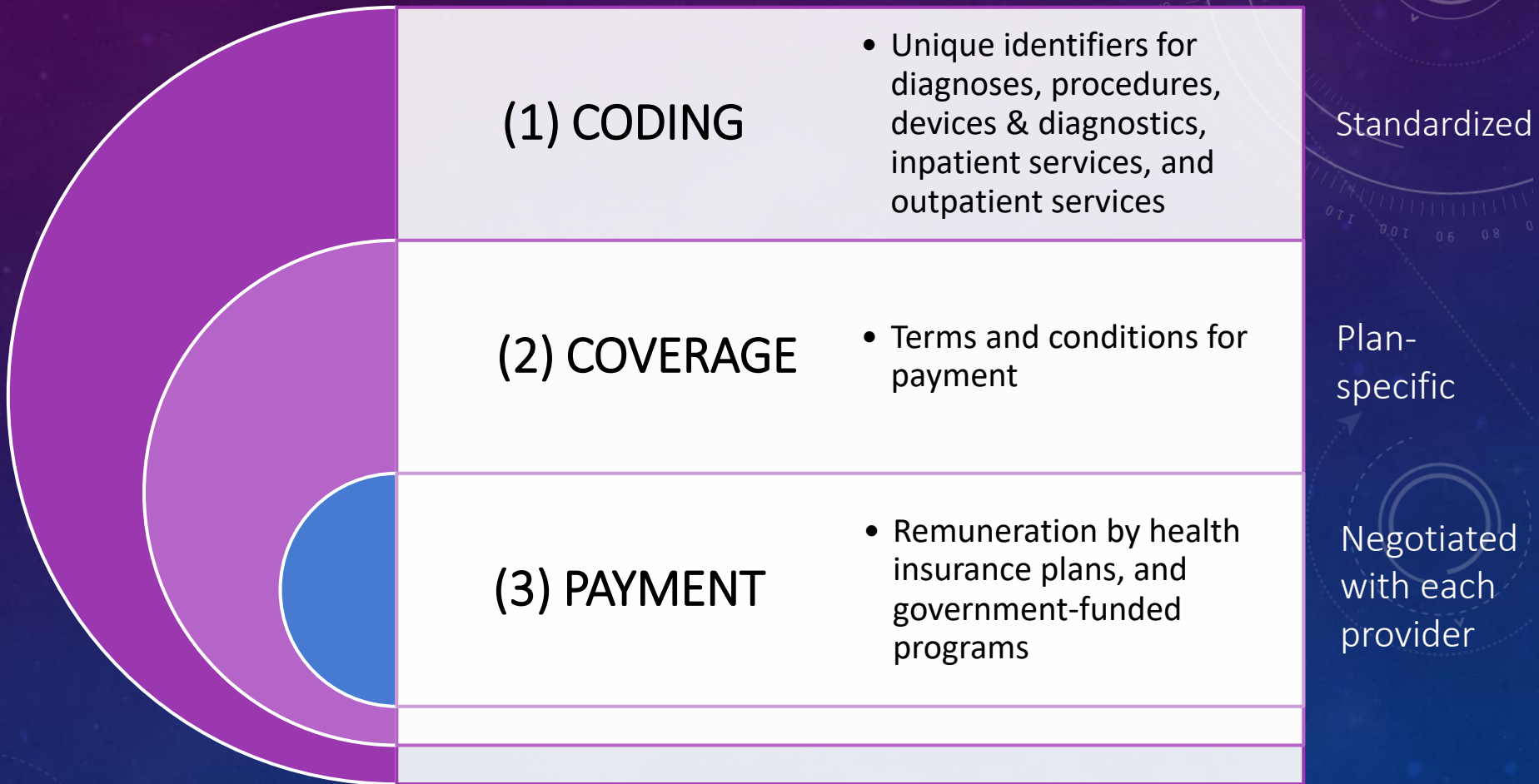


Codes and Coverage 101

How Does a New Medical Device Fit Into the Payment System?



Reimbursement - Three Distinct Components



Coding Basics

- A reimbursement code is an identifier for a diagnosis, drug, device, or procedure
- Codes allow for rapid claims processing

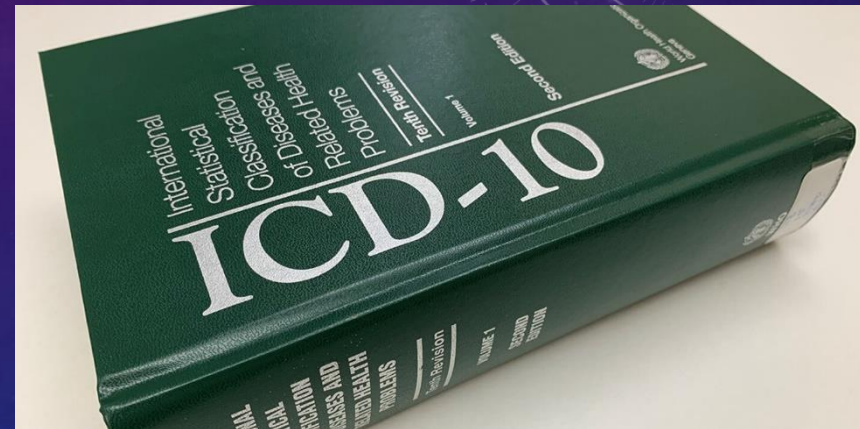
Code \neq Coverage

ICD - The International Classification of Diseases (10th Edition)

- Published by The World Health Organization (WHO)
- ~70,000 ICD-10-CM diagnosis codes and ~70,000 ICD-10-PCS procedure codes
- Updated annually

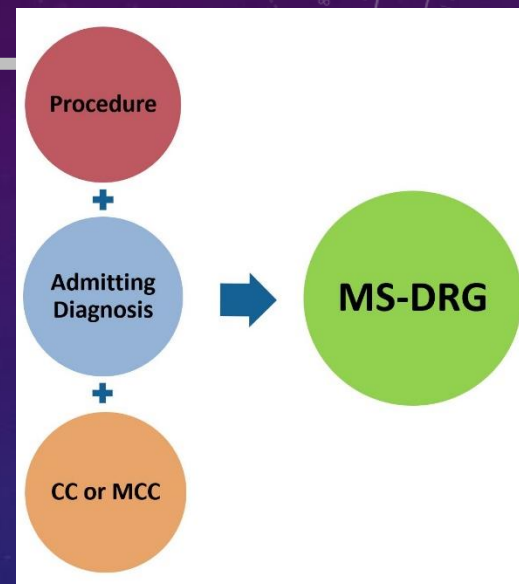
PCS - procedural classification system

CM - morbidity classification



DRG - Diagnosis Related Groups

- Classify hospital cases deemed to have a similar clinical condition and expected similar use of hospital resources.
- An **MS-DRG** is determined by the principal diagnosis, the principal procedure, and certain comorbidities and complications.
- ~740 DRG categories, defined CMS
- Payment **rates** are based on the "average" **cost** to deliver care to a patient with a particular disease.



DRG payments cover all charges associated with an inpatient stay from the admission to discharge, including nursing services, room and board, diagnostic and all ancillary services.

MS - medical severity

CPT - Current Procedural Terminology Codes

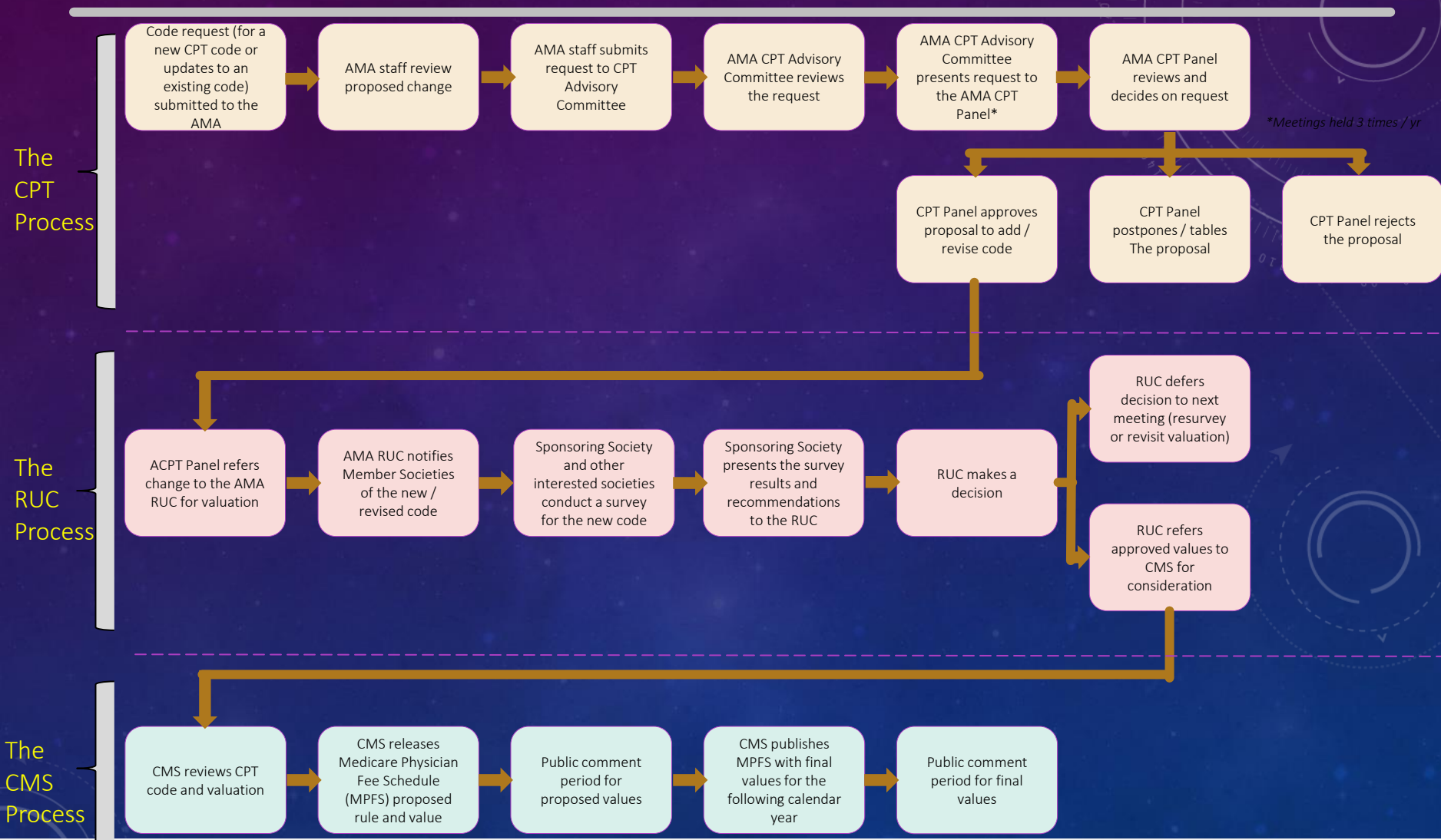
- Used to report medical, surgical, and diagnostic procedures and services to health insurance companies.
- >10,000 codes
- Maintained by AMA

The logo for Current Procedural Terminology (CPT) codes, featuring the lowercase letters "cpt" in a white, italicized serif font, with a registered trademark symbol (®) to the upper right of the "t". The logo is set against a dark purple rectangular background.

Requirements for a new code (*partial*)

- The device used in providing the service received approval from the FDA for the specific purpose described in the proposed CPT code.
- The service is performed routinely across the US at the time of application
- The clinical efficacy of the service is well-established and documented in peer review literature (at least one report with U.S. patients).
- **Supported by the relevant medical professional society(ies).**

Development of a New CPT Category I Code



CPT Category III

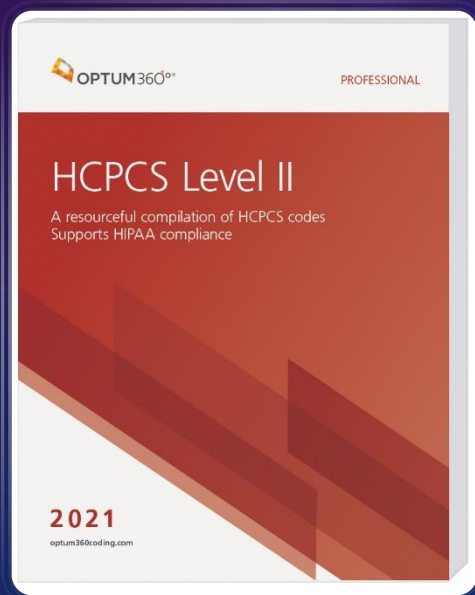
Assigned to emerging technologies, for services that do not meet requirements for Category I code.

Requirements

- The procedure is currently performed in humans
- At least one of the following:
 1. Support by at least one professional society
 2. Peer reviewed literature documents clinical efficacy
 3. There is
 - a) at least one IRB approved protocol of an efficacy study of the procedure in the U.S.or
 - b) other evidence of evolving clinical utilization in the U.S.

HCPCS - Healthcare Common Procedure Coding System

- Primarily for non-physician services - supplies and non-physician services
- >6,000 codes
- Maintained by Medicare



A-codes	Transportation, Medical & Surgical Supplies, Miscellaneous
B-codes	Enteral and Parenteral Therapy
C-codes	Temporary Hospital Outpatient Prospective Payment System
D-codes	Dental Procedures
E-codes	Durable Medical Equipment
G-codes	Temporary Procedures & Professional Services
H-codes	Rehabilitative Services
J-codes	Drugs Administered Other than Oral Method, Chemotherapy Drugs
Also: K, L, M, P, Q, R, S, T, V codes	

Requirements for Assigning a New HCPCS Code

- The item must be diagnostic or therapeutic in nature.
- Not used only in the inpatient setting.
- FDA approval
- Sufficient claims activity associated with the new item.

Standards for Coverage

Medicare*

“reasonable and necessary for the diagnosis or treatment of illness or injury”

- Improved outcomes
- Benefits outweigh risks
- Clinical evidence show outcomes in the relevant population

* Section 1862(a)(1)(A) of the Social Security Act

Private Plans**

- FDA approval
- Evidence - health outcomes
- The technology must improve net health outcomes
- Technology is beneficial as any established alternatives
- Improvement is attainable outside of investigational settings

** e.g., BCBS Evidence Street

Why is Coverage Denied?

Does not meet
FDA
requirements

Not within a
defined benefit
category (e.g.,
some
preventive
services)

Insufficient or
inconclusive
evidence, even
when FDA
cleared
(experimental /
investigational)

Evidence not
available for
target
population
(e.g., >65 for
Medicare)

Inconsistent
with existing
professional
practice
guidelines

FDA Approval Does Not Predict Reimbursement

- FDA approval of a device allows its marketing in the US. Payers decide whether to cover the device / procedure.
- The FDA process is a structured process, driven by well-defined guidelines. Coverage decisions are subjective, made separately by each payer.
- Clinical data supporting FDA approval (if required) - generally limited to a single pivotal study documenting safety and efficacy. Payers' decisions are based on multiple peer-review publications summarizing studies assessing clinical outcomes.

Setting Payments for Professional Services

- Medicare Physician Fee Schedule (PFS).
- Services paid under the PFS are divided into:
 - **Physician work.** Reflecting the physician's time, effort and technical skill required to render the specific service.
 - **Practice expense.** Including equipment, supplies and office overhead.
 - **Malpractice insurance** premiums.
- CMS - most services have a national rate (payments adjusted to reflect regional costs, type of facility, etc.).
- When a service does not have a national payment rate, each regional Medicare contractor determines the payment rate for its locality.
- CMS is prohibited from using differential payments based upon the specialty of the physician performing the service (commercial payers are not bound by this restriction).
- Most commercial payers use Medicare fee schedule as a benchmark.

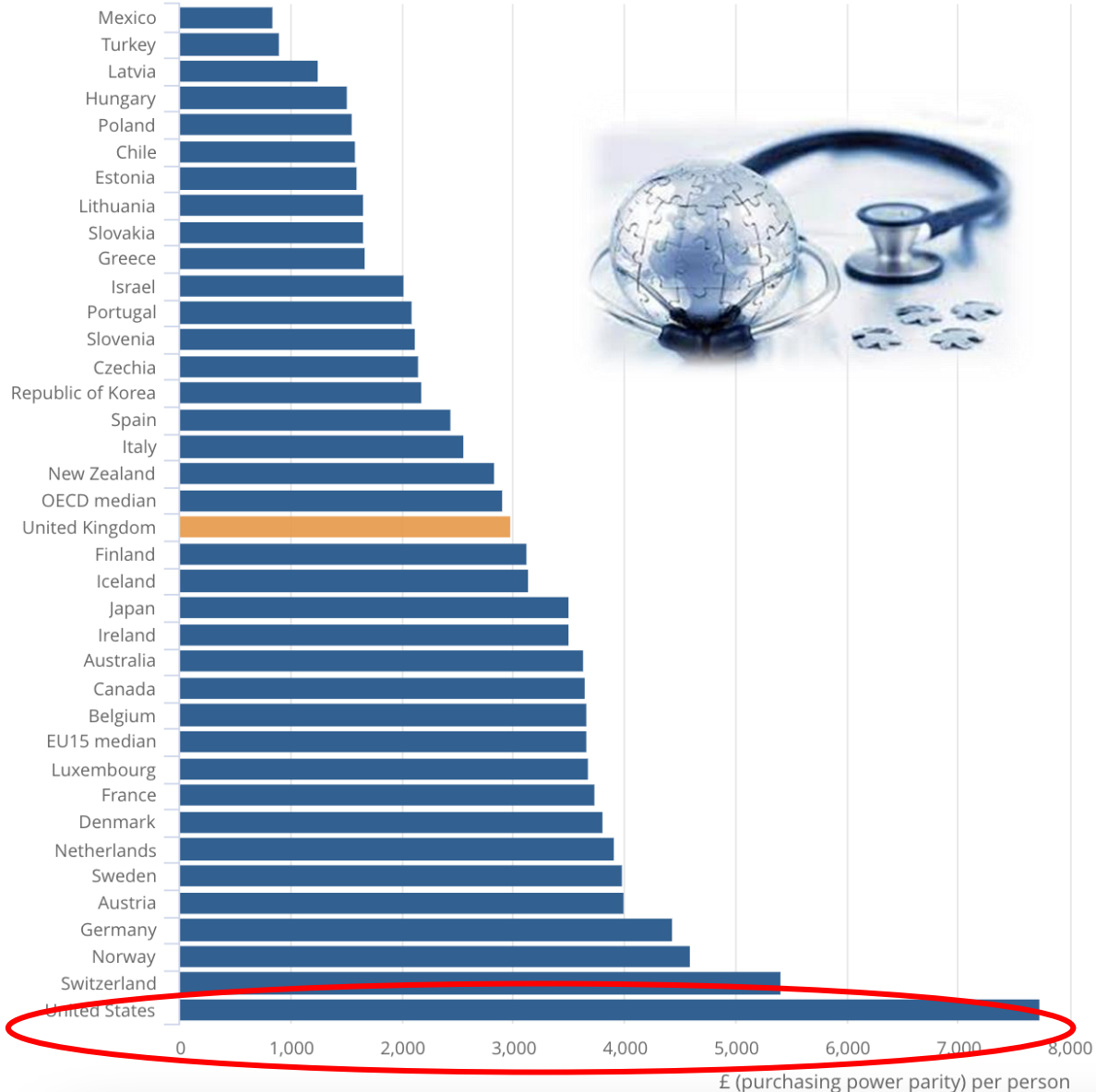
The **Environment** is Changing

Health spending in the U.S.
accounts for 17.7% of GDP

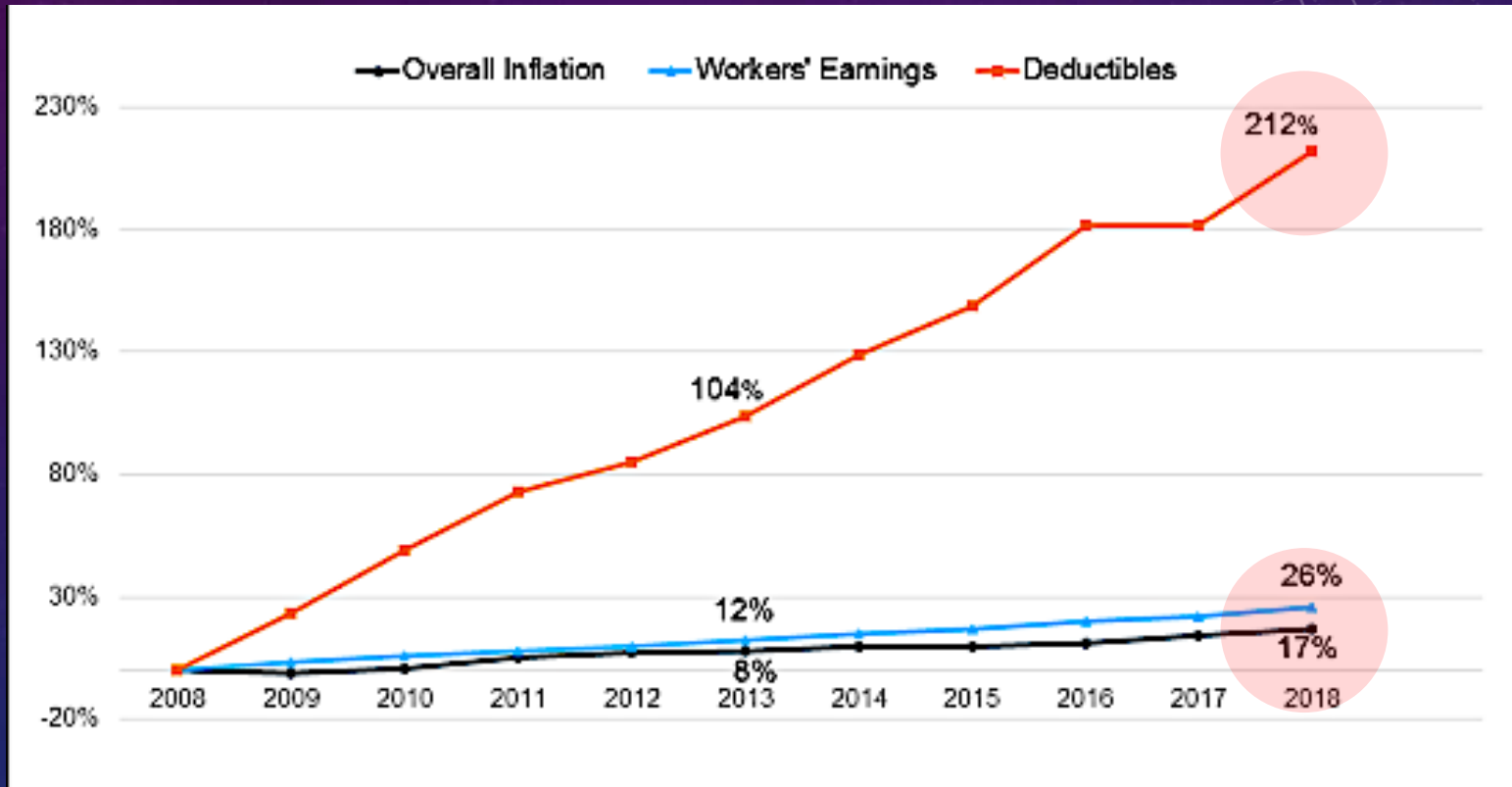


Significant pressures
(public, employers,
politicians) to reduce rate
of increase in cost of care.

Healthcare spending per person in OECD countries in 2017



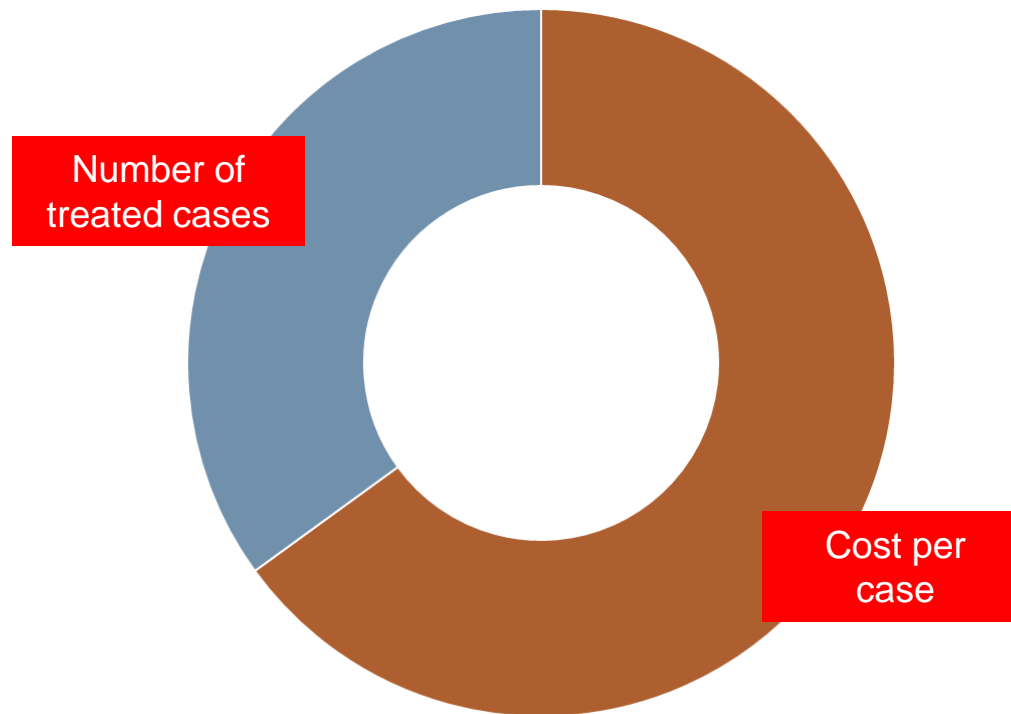
Annual Deductibles for Workers Have Increased 8 Times as Wages



Source: Kaiser Family Foundation

Increases in prices and service intensity have driven most of spending growth

Percent change from previous year for price indexes and real expenditures on medical services by disease, 2001 - 2012



Changes In
Reimbursement
are Under Way



"Value is measured by patients' health outcomes per dollar spent."

$$\text{Value} = \frac{\text{Quality (Outcomes, Safety, Service)}}{\text{Cost}}$$

Quality Improvements (examples)

- ✓ Prevention of illness
- ✓ Early detection
- ✓ Right diagnosis
- ✓ Right treatment to the right patient
- ✓ Rapid cycle time of diagnosis and treatment
- ✓ Fewer invasive treatments
- ✓ Fewer complications
- ✓ Fewer mistakes and repeat treatments
- ✓ Faster and more complete recovery
- ✓ Less need for long-term care
- ✓ Fewer recurrences
- ✓ Reduced need for ER visits
- ✓ Slower disease progression

The Emerging Landscape

Past

Future

Volume based incentives



Value based / outcomes

Fee-for-service



Bundled care

Payers assume financial risk



Payers & providers share risk

Devices selected by physician
[Clinical consideration]



System decisions
[Clinical, operational, marketing, economics]

Many Reforms and Initiatives are in the Pipeline

CMS Vision

“We are moving to a system that rewards value over volume.

Start paying for value will foster innovation, as providers look for ways to compete for patients by providing the highest quality care at the lowest cost.”

Accountable Care Organizations (ACO)

Shift from fragmented care to coordinated care and measured performance

Value-Based Purchasing (VBP) Program

Reward value and patient outcomes, instead of volume of services

Reduced Payments for Hospital Acquired Conditions

Stop paying for certain conditions developed while the patient is hospitalized

Hospitals Readmission Reduction Program

Reduce payments to acute care hospitals with excess readmission

Payment Reforms

Incentivize Quality, not Volume; pay-for-performance (value)

Payers Must Balance Conflicting Objectives



Maintain costs, address government, employers and patients' desire to keep costs down



Compensate providers for their costs of delivering required care



So, What Do We Need To Do?

Addressing reimbursement
early in the process changed
from

Failure to address reimbursement
early in the project life changed
from

Past

- Not important

- Not a big deal

Yesterday

- Nice to do

- Bad practice

Today

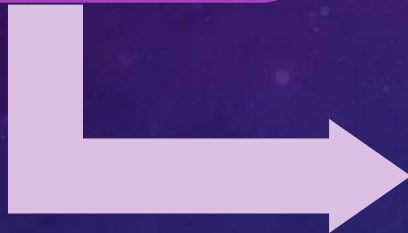
- Important / critical

- Business malpractice

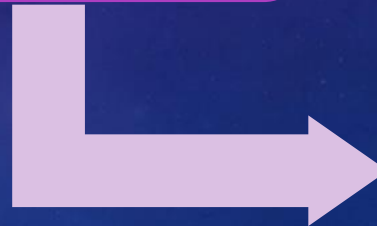


Reimbursement Affects Financial Success

Investors want to know early on what it will take (time, funds) to obtain reimbursement

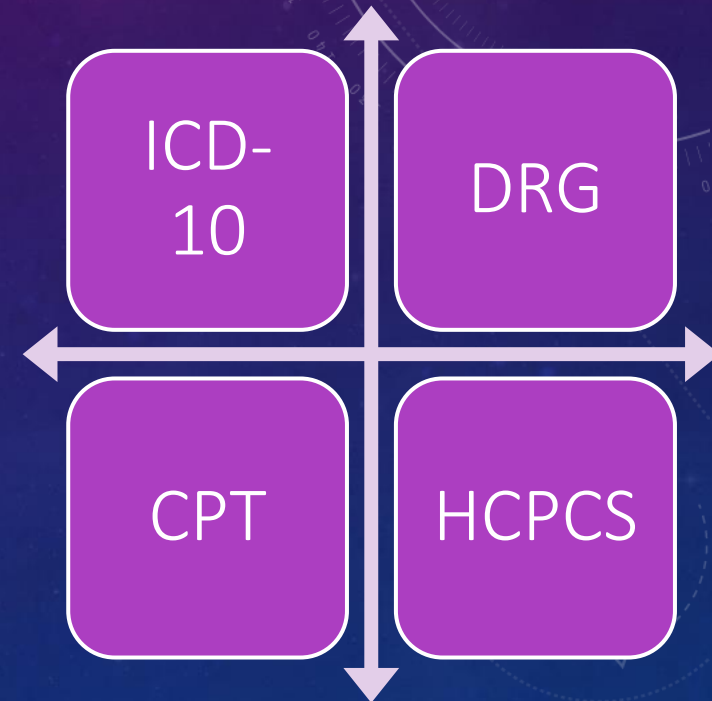
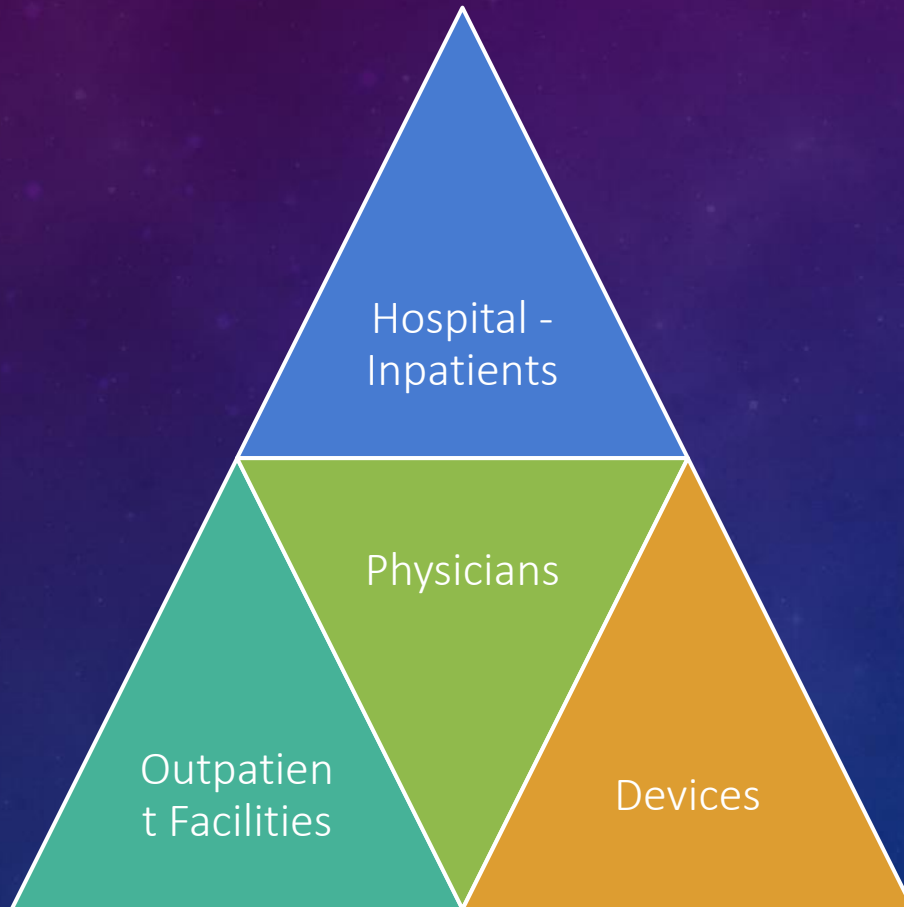


Sales are difficult to ramp-up until reimbursement is established



Marketing partners and acquirers hold off getting involved until reimbursement is established

First Step: Understand Payment Mechanisms for Your Product / Service



The Initial Review

What will be reimbursed?

- Professional services
- Facility costs
- Device / product

Medical practice

- Established, modified or a new practice?
- Clinical protocol / workflow

Where will the product be used?

- Inpatient facility
 - Hospitals
 - Long term care
- Outpatient
 - Hospital-based
 - Ambulatory surgical centers
 - Physician offices / clinics
- Home

Who are the users?

- Physicians / specialties
- Nurses
- Licensed therapists
- Patients

Who will pay?

- Medicare
- Medicaid
- Commercial payers
- IDNs
- Government
- Employers
- Patients

Step Two: Develop a Roadmap to Reimbursement



Integrate Coverage Supporting Data Into Clinical Trials Design

Evidence of improved outcomes, clinical efficiency, and cost effectiveness

Include gathering data comparing study device to existing treatments or technologies

- ❑ Well-established performance of the technology.
- ❑ Demonstrated clinical outcomes / improvement over the established practice
- ❑ Well-defined patient population.
- ❑ Economic rationale (preferably short-term benefits).

Step Three:

Integrate 'Reimbursement' into Your Business Plan

Selection of first application
/ indication / market
segment

Product configuration /
users' requirements

Regulatory strategy / IFU

Required clinical data to
support regulatory +
reimbursement + marketing

Go-to-market
strategy

Pricing
Strategy

Business and operating
models

Identifying appropriate
advisors

Required people,
Skills & budgets

So, When Should We Start Reviewing Reimbursement?

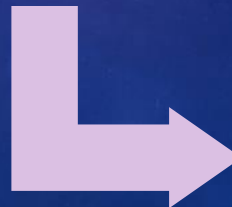
Company valuation is predicated upon convincing investors and acquirers that the technology will gain adoption.



Adoption requires reimbursement



Gaining reimbursement requires a coherent strategy



Defining the business model and strategy requires an understanding the roadmap to reimbursement

Earlier the better!

