

Cognizant

Technology Specific to Payment Bundling including Blockchain

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Bundled Payment Programs

Bundled Payment Program

Increased Quality

- Align payment incentives with quality metrics
- Increased coordination of care
- Reduce avoidable complications



Enhance Patient Experience

- Better patient outcomes
- Better patient experience

Reduce Medical Costs

- Redirect care from fee for volume to fee for value
- Reduce unwarranted variations in care
- Attention to costs associated with episode of care

Bundled Payment Design

Episode Window

How to trigger the episode? Notification Process
Number of Days: Pre-, post- and during trigger
Supplemental Data? Quality metrics, readmissions

Inclusion vs. Exclusion

Patients – Exclude for age or co-morbidities
Services – line or claim level?
Providers – leakage? Track or price differently?

Payment Methodology

Prospective or Retrospective? Both!
Risk Level – Any Outliers/Stop Loss?

Prospective or Retrospective?

TYPE	Benefits	Challenges
Prospective	<ul style="list-style-type: none">• Transference of Risk• Faster Results• Levels medical costs for Payer• No shared savings distribution• Included in claims adjudication workflow	<ul style="list-style-type: none">• Must achieve efficiency quickly• Conductor needs infrastructure to pay providers• Regulatory issues
Retrospective	<ul style="list-style-type: none">• Providers more willing• Learning environment• Easier to administer• Easier for providers to receive FFS payments	<ul style="list-style-type: none">• Moves the needle slower• Lengthy shared savings reconciliation• ASO settlement payments

Did your pilot have lackluster results?

Are the conductors including only the healthiest patients?

What is the cost vs. benefit?

Initial Analysis does not match claims data?

What about the leakage payments?



Current Technology Available

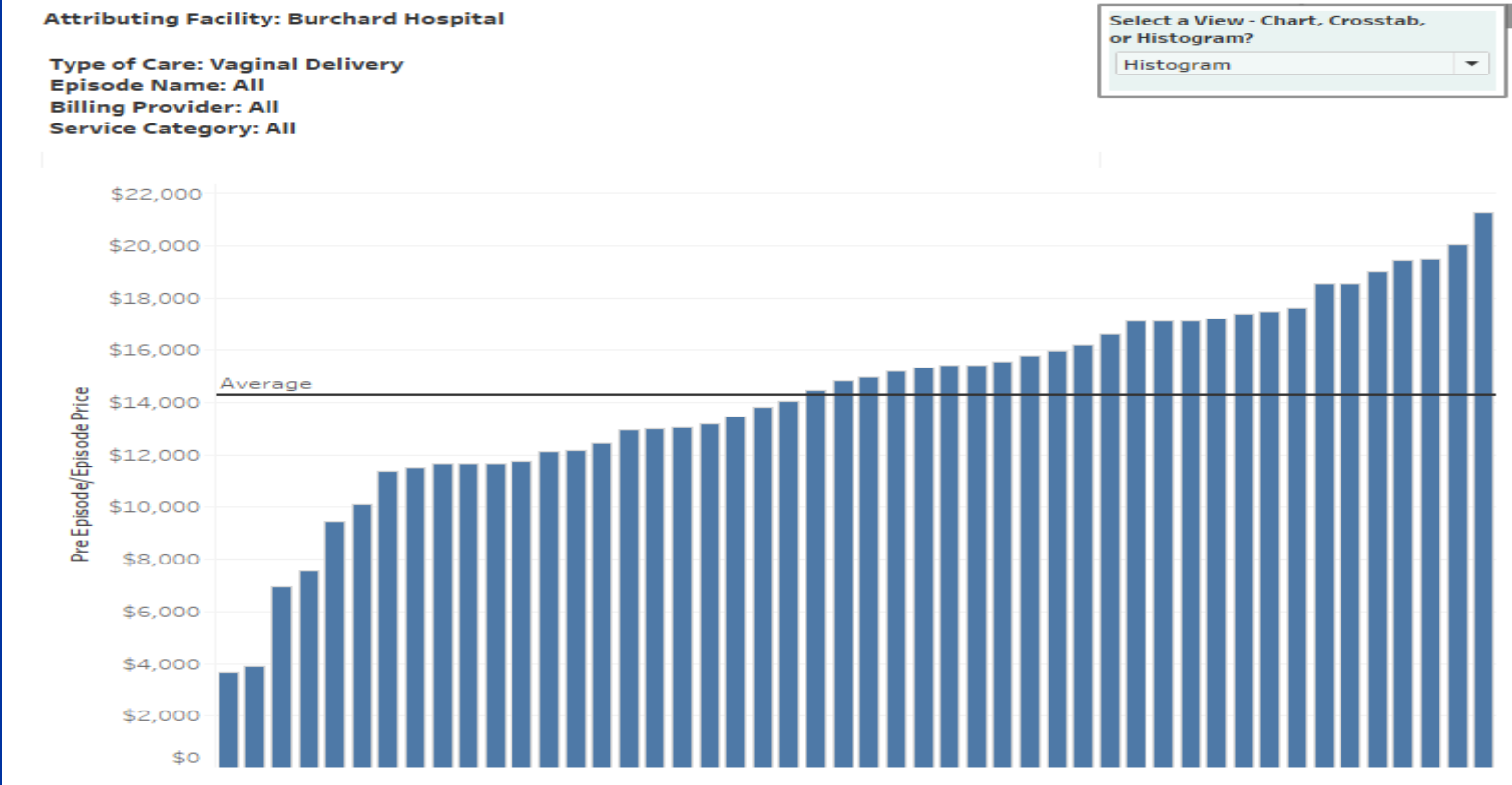
Analytics

Analytics at each stage

- ✓ During the opportunity assessment
- ✓ During ROI projection & program approval
- ✓ Contracting Strategy
- ✓ Ongoing monitoring of current contracts
- ✓ Expansion initiatives

Visualization is key to understanding trends.

Opportunity Assessment



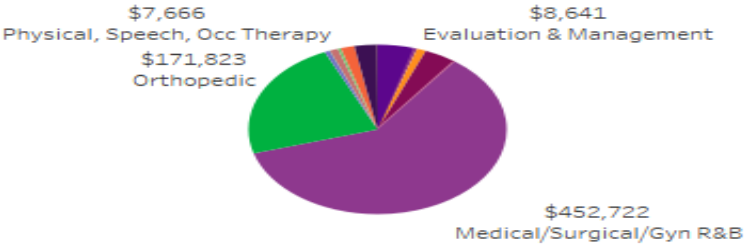
Understanding Trends

Type of Care: Knee Replacement & Knee Revision
 Episode: (TZ_PROM) KNEE REPLACEMENT AND KNEE REVISION (KNRPL) 5.3.001
 Attributing Facility: Mayaguez Hospital

Bundle Count: 15 ; Complication %: 3.47% ; Average Bundle Price: \$50,114

Service Category	Episode Name	Amount
Medical/Surgical/Gyn R&B	(TZ_PROM) KNEE REPLACEMENT AND KNEE..	\$452,722
Orthopedic	(TZ_PROM) KNEE REPLACEMENT AND KNEE..	\$171,823
Anesthesia	(TZ_PROM) KNEE REPLACEMENT AND KNEE..	\$33,396
General Medical	(TZ_PROM) KNEE REPLACEMENT AND KNEE..	\$30,337
Subacute Care	(TZ_PROM) KNEE REPLACEMENT AND KNEE..	\$21,177

- Medical/Surgical/Gyn R..
- Orthopedic
- Anesthesia
- General Medical
- Subacute Care
- Rehabilitation R&B
- Evaluation & Managem..
- Physical, Speech, Occ T..
- Pathology-Laboratory
- DME
- Radiology
- Pharmacy



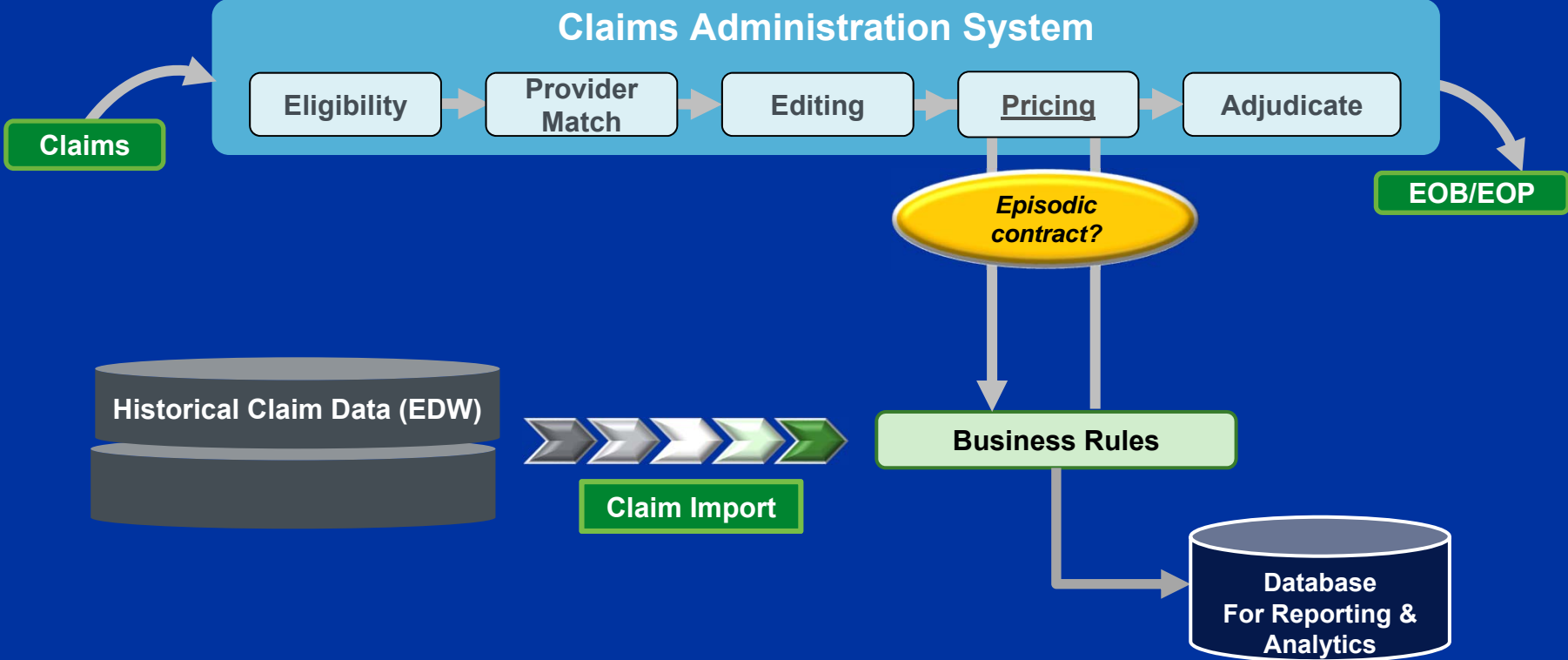
Automation

Technology Requirements

- Assess multiple claims, multiple providers and multiple dates of service for inclusion in an episode of care
- Systematically codify the clinical criteria of an episode
- Automate the patient and claim inclusion criteria
- Issue a single bundled payment for multiple claims within an episode
- Identify quality metrics and monitor providers
- Identify attributing providers and assess their participation
- Provide claim repository for retrospective reconciliation and shared savings payments

Cognizant's Technology Solution

Payment Bundling can be invoked during adjudication process in real time



Analytics vs. Fully Automated Solution

Analytics Only

- ✓ Retrospective Only
- ✓ Ongoing Data Verification
- ✓ Extensive Reconciliation
- ✓ Lower TCO
- ✓ Slower Savings Realized

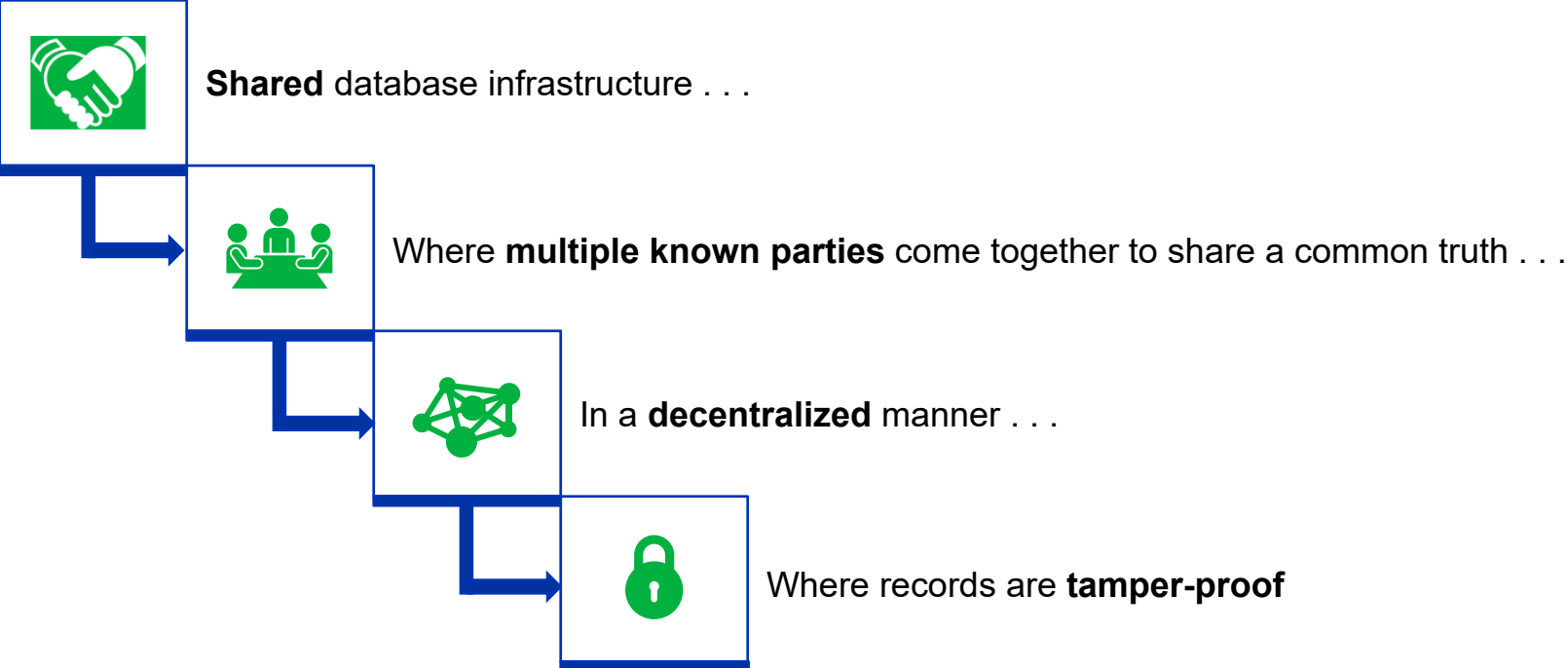
VS.

Automated Solution

- ✓ Retrospective & Prospective Contracts
- ✓ Consistent Results
- ✓ Minimal Reconciliation
- ✓ Increased TCO
- ✓ Increased Savings and Faster

Blockchain is the solution....but
for which problem?

Definition for Permissioned Blockchain Technology



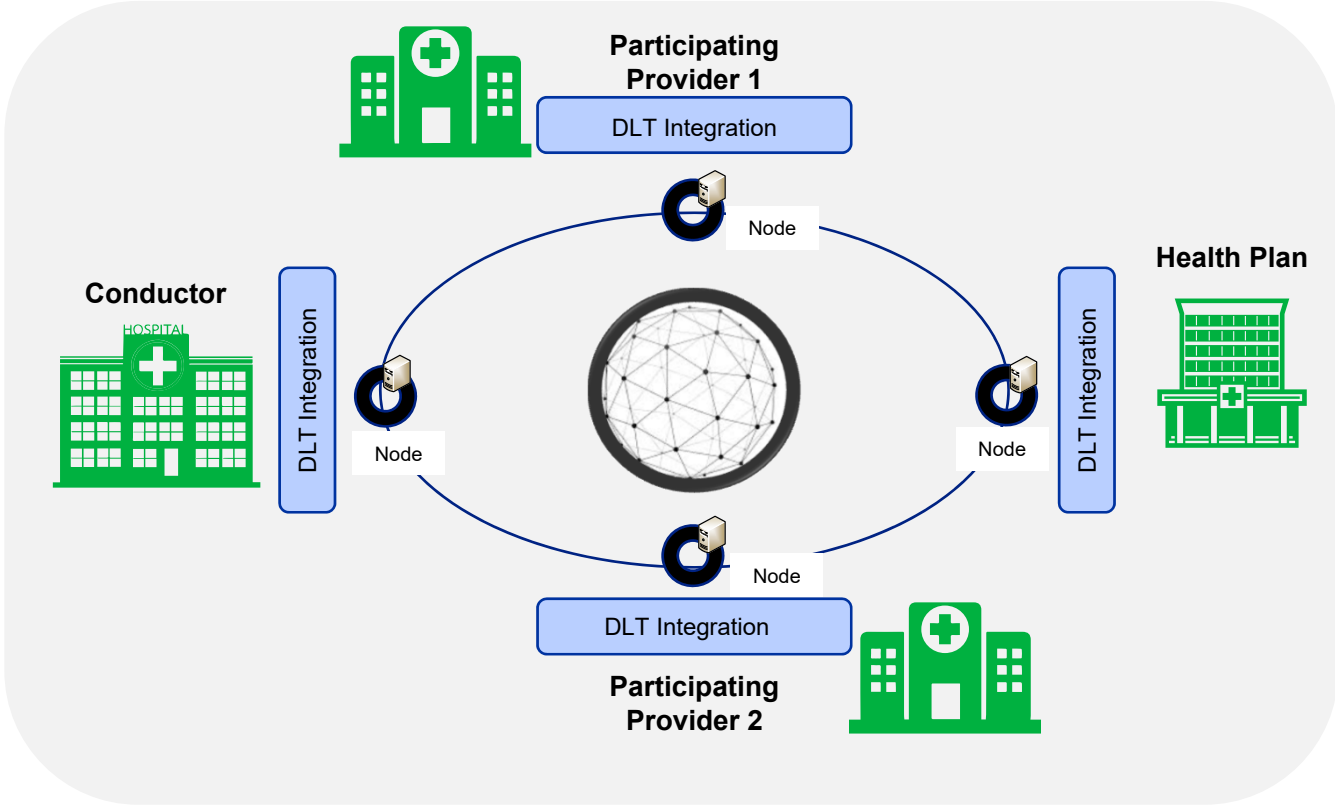
Bundled Payments Network Enabled by Blockchain

Frictionless Episode Data Sharing

- Medical Claims
- Care Coordination
- Documentation & Charges
- Payments

Transparent Episode Tracking

- Cost Tracking
- Claw-backs
- Seepage
- Distributions



Example Application – Improving Care Coordination

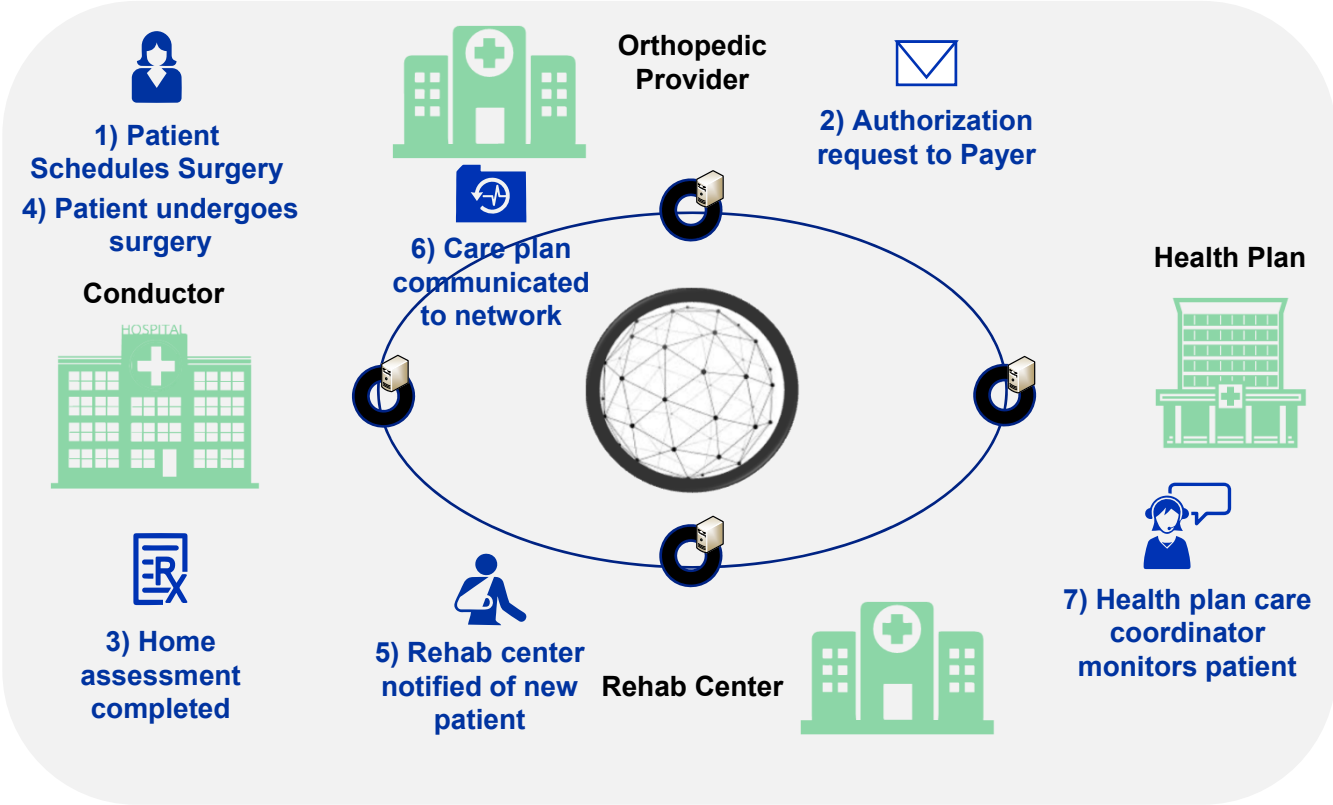
Care Coordination

Problem Statement

- Multiple stakeholders with different IT systems
- Secure method to communicate this type of data

Solution

- Digital platform for care coordination messages
- Blockchain authenticated identity of messaging for security



Example Application – Episode Gainsharing Transparency

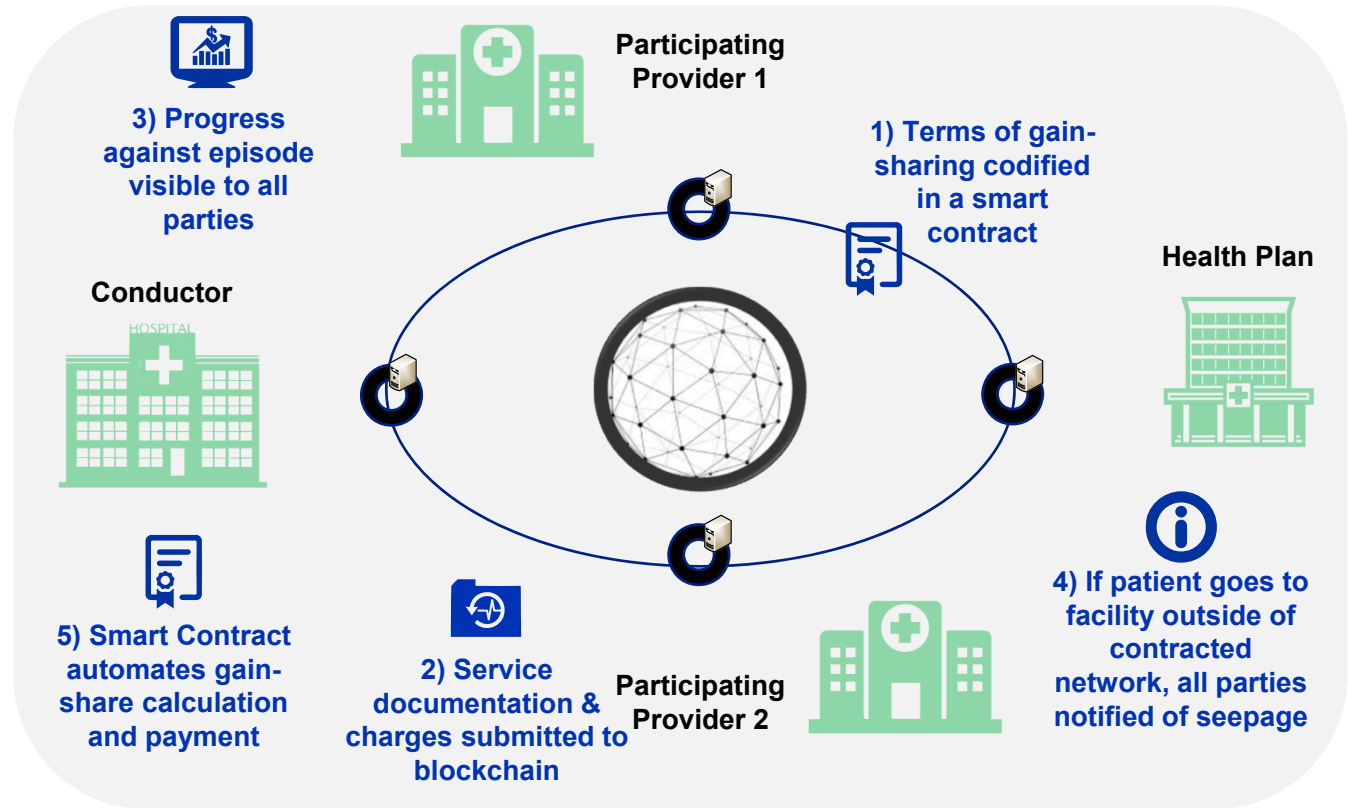
Care Coordination

Problem Statement

- Participating providers lack visibility of trend against bundle cost
- Health Plan has to manage claw-backs due to seepage

Solution

- Blockchain transparency of episode costs and evens
- Smart contract automates gain-share calculation and payments



Real World Examples in Healthcare



- Launched February 2017
- 250+ enterprise members forming open source enterprise blockchain based on Ethereum
- Initiated with JPM's Quorum blockchain project

- Short for the Blockchain Insurance Industry Initiative launched in October 2016
- Aimed at providing a way for insurers to swap information and collaboratively test prototypes and use cases



Thank you

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