

AT-I RSO Update

26Apr2024

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.



Rate Sheet Optimization

RSO Update

26April 2024

1. Engagement Plan Check-In
2. UX Discovery Outcomes
3. Next Steps

Engagement Plan

Check-In

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.



Rate Sheet Optimization Engagement Plan

RECOMMENDED PRE-WORK:

Team makeup (RACI), Stakeholder and resource availability commitment, Interview participants

*Presentations: All stakeholders / decision makers required for presentations
All presentations are alignment sign-offs

 Presentation*  Current Status

Objectives: RSO Prototype, Future-state PCM UX, implementation proposals					
19 Weeks	Month 1 2/26-3/22	Month 2 3/25-4/19	Month 3 4/22-5/17	Month 4 5/20-6/14	Month 5 6/17-7/12
	Initiate	Discover	Innovate	Innovate	Innovate
RSO Prototype ➤ ACTIVITIES ❑ DELIVERABLES	<p>Activities:</p> <ul style="list-style-type: none">➤ Review PE discovery➤ Interview stakeholders and SME for UHC static MAW optimization use cases➤ Discover origin of MAW data including Rate Sheets and SPS projections <p>Deliverables:</p> <ul style="list-style-type: none">❑ Engagement plan, RASIC❑ Interview guides❑ Target user personas and prioritized use cases❑ RSO scope, top-level prototype requirements❑ Model input data requests	<p>Activities:</p> <ul style="list-style-type: none">➤ Model and code top UHC use case➤ Workshop to validate RSO prototype use case and planned ML approaches➤ Stage live data into GCP➤ RSO UX design study <p>Deliverables:</p> <ul style="list-style-type: none">❑ Prototype RSO models, code, and baseline comparison❑ Proposal for prototype arch. and SW bill of materials❑ GCP data platform❑ RSO UI wireframes	<p>Activities:</p> <ul style="list-style-type: none">➤ Refine prototype RSO model➤ Develop prototype UI➤ CI/CD and data pipeline development in GCP➤ Enterprise architecture reviews➤ Validation test planning <p>Deliverables:</p> <ul style="list-style-type: none">❑ Alpha RSO release❑ Approved solution architecture and SW bill of materials❑ GCP dev env ready with live data and approved tools❑ Alpha user test plans for usability and rate optimality	<p>Activities:</p> <ul style="list-style-type: none">➤ Alpha user testing➤ Alpha model, data pipeline, and UI refinements➤ Add Staging and Production envs, automate testing➤ Begin modeling second MAW use case <p>Deliverables:</p> <ul style="list-style-type: none">❑ Beta release all tech❑ Complete GCP env suite❑ Basic QA suite and unit tests	<p>Activities:</p> <ul style="list-style-type: none">➤ Beta user testing with expanded RSO model for static MAW➤ SPS workshop to discover use cases for optimizing MAW calculation algorithms➤ Final refinements and testing➤ Final proposal and readout <p>Deliverables:</p> <ul style="list-style-type: none">❑ Final release all tech, documentation, and artifacts❑ Testimonials, user feedback❑ Crawl/walk/run next steps for RSO features and scope
PCM UX Study ➤ ACTIVITIES ❑ DELIVERABLES	<p>Activities:</p> <ul style="list-style-type: none">➤ Review PE discovery➤ Interview stakeholders and SME for E2E experience goals➤ Review UHC renewal contract and map to rate negotiation process <p>Deliverables:</p> <ul style="list-style-type: none">❑ Engagement plan, RASIC❑ Interview guides❑ Target user personas and prioritized jobs to be done❑ E2E scope, top-level future reqs	<p>Activities:</p> <ul style="list-style-type: none">➤ Workshops to align future business process and tech reqs➤ Map UX requirements to each persona and use case➤ Prioritize use cases for dev <p>Deliverables:</p> <ul style="list-style-type: none">❑ Future-state journey maps and data structures❑ Process automation and standardization recommendations❑ Product roadmap – from/to plan	<p>Activities:</p> <ul style="list-style-type: none">➤ Draft Information Architecture➤ Wireframing➤ Validation test planning <p>Deliverables:</p> <ul style="list-style-type: none">❑ Future-state application data structure and data flow maps❑ Low-fidelity wireframes for key personas and use cases❑ User test plans for design validation	<p>Activities:</p> <ul style="list-style-type: none">➤ Refine Information Architecture and Wireframes➤ Alpha user testing and requirements verification➤ Discover data and tech architectures for current tech solutions used by SPS and PCA <p>Deliverables:</p> <ul style="list-style-type: none">❑ High-fidelity wireframes❑ Interaction design reqs❑ Future-state data and systems architectures	<p>Activities:</p> <ul style="list-style-type: none">➤ Develop and test interactive application prototypes➤ Develop solution architecture and business case for future-state platform➤ Final proposal and readout <p>Deliverables:</p> <ul style="list-style-type: none">❑ Final interactive prototypes, designs, and artifacts❑ Testimonials, user feedback❑ Crawl/walk/run next steps for PCM UX, integrating w/ RSO

UX Discovery Outcomes

Human Optimization

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.



Link to Wireframes

ins proprietary information.
al distribution.



Next Steps

Deliverables Scoping

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.



What's Next



Move into deep dives



How to gauge pricing success



Discover & test intelligent optimizations

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.

Wednesday 23Apr Workshop Agenda

- Optimization Objective: Margin or forecasted yield? Top KPI beyond NI
- Strategic Initiatives and priority order
- Define decision tree logic and relation to trends
- Guidance on estimating floor, ceiling, and bandwidth
- Introduce new hard constraints or KPI?

Constraint-Based Optimization

Objective: Maximize overall Net Impact (NI) achieved during negotiation, by optimizing NI distribution across global and service line rates according to:

1. Strategic Initiatives Decision Tree

- Pricing Initiative, Care Shift, Market Rate Collapse, Outliers and Anomalies

2. Model HCA and Payor Business Rules

- Estimate bandwidth for all rates and DRG
- Determine floor and ceiling – data validation

3. Use Business Rules for Constraint-Based Optimization

- Automatically simulate and recalculate based on colleague inputs, priorities, and constraints
- **Get to agreement faster**

STRATEGIES:

- L1 – move revenue to growing service when: S1[Decline], S2[Decline]
- L2 – Care shift, move revenue to outpatient when: S7
- L9 - Anomalies

SERVICE PARAMETERS:

- P1 - Volume [Grow | Decline]
- P2 - Revenue [Growing | Decline]
- P3 - Revenue [High | Market | Low]
- P4 - EBITDA target [Above | Below]
- P5 - Margin?? >70%; Geometric Mean??
- P6 - Days Covered[Above | Below]
- P7 - Add-on Extra days Trending [Up | Down]
- P8 - Add-on Extra days 1-day [90% | 50% | 30%]
- P9 - % Medicare [Above | Below]
- P10 - Market Bandwidth [Min, Mean, Max]
- P11 - Add-on Implant Markup%
- P12 - Add-on drugs
- P13 - Pricing Initiative
- P14 - Premium ServiceLine
- P15 - Anomalies

SERVICE SIGNALS:

- S1- Volume [Grow | Decline] (P1)
- S2 - Revenue [Growing | Decline] (P2)
- S3 - Add-on Extra days Trending [Up | Down] (P7)
- S4 - Add-on Extra days 1-day [90%] (P8)
- S5 - 2x Medicare [Above] (P9) & Volume [Grow] (P1)
- S6 - Revenue too High (P3) & Volume [Decline] (P1)
- S7 - Care shift: Extra day Trending [Down] (P7) & Extra days 1-day [90%]



CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.

HCA 
Healthcare®

[Link to Pricing Logic Structure](#)

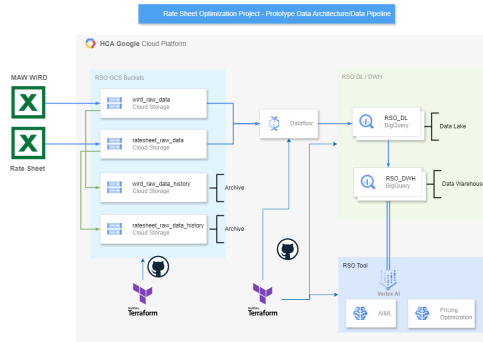
Prototyping

3-month Delivery Plan

CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.

Rate Sheet Prototype Delivery Overview

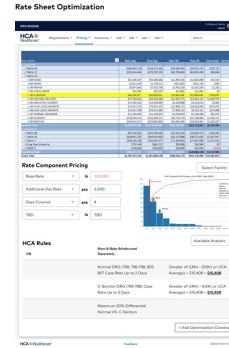
DATA FOUNDATIONS



Delivery Date: End of May

- WIRD database and pipeline
- API connects WIRD data to Rate Sheet calculation
- Verification with historical and current DFW data
- Start building UI from workshop designs

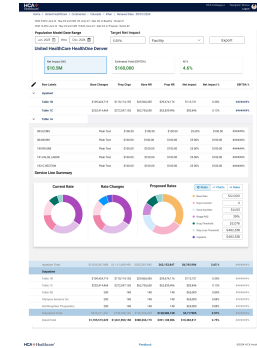
PROOF OF TECHNOLOGY



Delivery Date: End of June

- Rate Sheet CRUD app, basic UI
- Calculation and constraints databases and API available
- Validation with historical and current Denver data
- Full UI ready to attach to Rate Sheet calculation APIs

PROTOTYPE DELIVERY

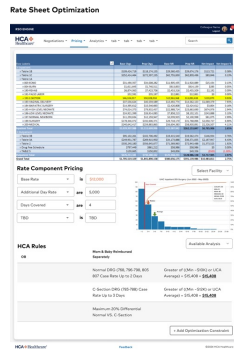


Delivery Date: Mid-July

- Rate Sheet prototype, detailed UI with more features
- Optimization and priority logic databases and API available
- App uses colleague inputs and exports Rate Sheet, reports
- Final documentation package

Rate Sheet Optimization IA Delivery End

PROOF OF TECHNOLOGY

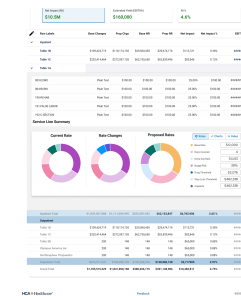


Delivery Date: End of May

Scope: UHC Dallas data

- ADS/SPS Produced WIRD/CALC detail/Rate Sheet files
- Real-time ADS calculations for 'pricing initiative service lines'; build for validation
- Pricing initiative strategy constraints optimization with max net revenue + floor/ceiling guardrails
- Machine Learning model initiated for projected Volume trend consideration within optimization

UHC Dallas/Denver Alpha Pilot

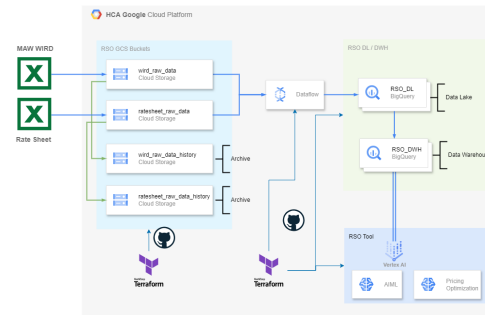


Delivery Date: End of July

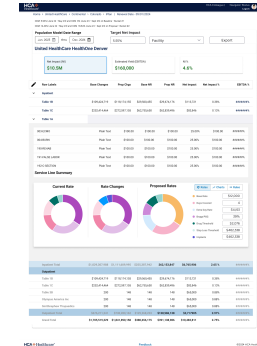
- ADS/SPS Produced WIRD/CALC detail/Rate Sheet files
- Real-time calculation and pricing initiative strategy constraints databases and API available
- On-demand trending historical volume data
- Full UI ready to attach to Rate Sheet calculation APIs

Rate Sheet Optimization Dev Delivery Next Steps

DATA FOUNDATIONS



Optimizer Application Design Package



Design Delivery Date: End of July

Dev Delivery Date: TBD on Business Case

- Rate Sheet detailed UI with prioritized features
- Optimization and priority logic databases and APIs
- WIRD database and API pipeline to Rate Sheet Calculation
- Database and API pipeline for Historical and current Volume Data
- App uses colleague inputs and exports Rate Sheet, reports
- Final documentation package (confluence, figma, sharepoint)

- Business Case Support
- CONFIDENTIAL – Contains proprietary information.
Not intended for external distribution.

Build Options

1. No UI, ask colleagues to accept RSO guidance on MAW
2. Minimal UI, Rate Sheet recalculation only, no analysis features
- 3. Build towards full UI, stick to original plan, roadmap requested features**
4. Pivot to facilities cost modeling, unlock full constraint-based optimization