

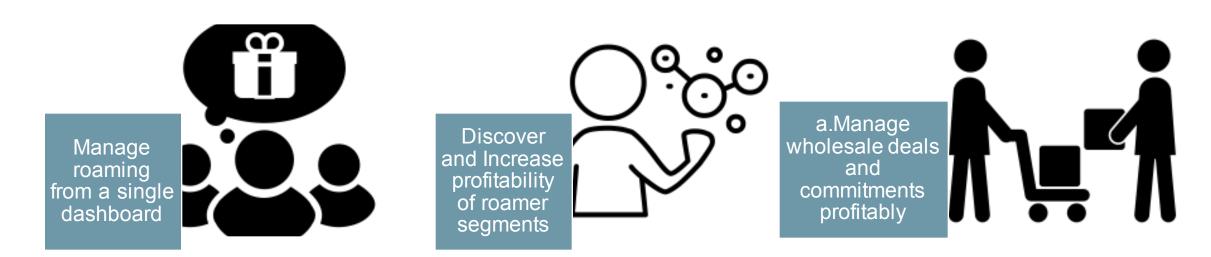
Business Challenges

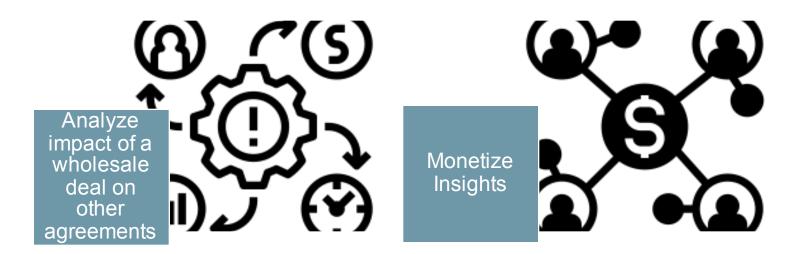






What operators need?







Our Solution: Roaming Business Advisor

Analytics enabled product suite to enable retail and wholesale analytics

Retail roaming plans cannot be "reasonable" if wholesale costs are "unreasonable"

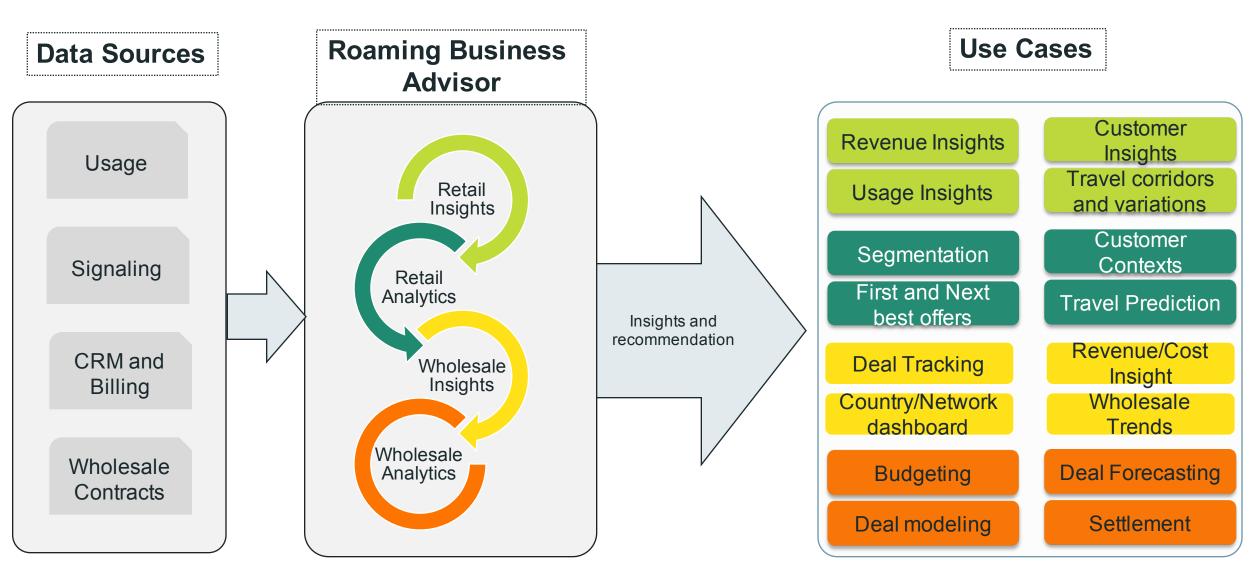
Retail Business Advisor

Wholesale Business Advisor





Our Solution: Roaming Business Advisor





Retail Insights – Roaming Business and Customer

Business KPIs (\$\$\$)

- Average / Median revenue/usage metrics for voice, SMS, data
- Visited country cohort analytics
- Day-pass, weekly-pass, monthly-pass and usage analytics
- Quality and Quantity of roamers

Trends

- Key Leader and Laggard geographies by revenue/usage
- Changes in pre-packaged and user defined segment

Pre-packaged Insights for retail

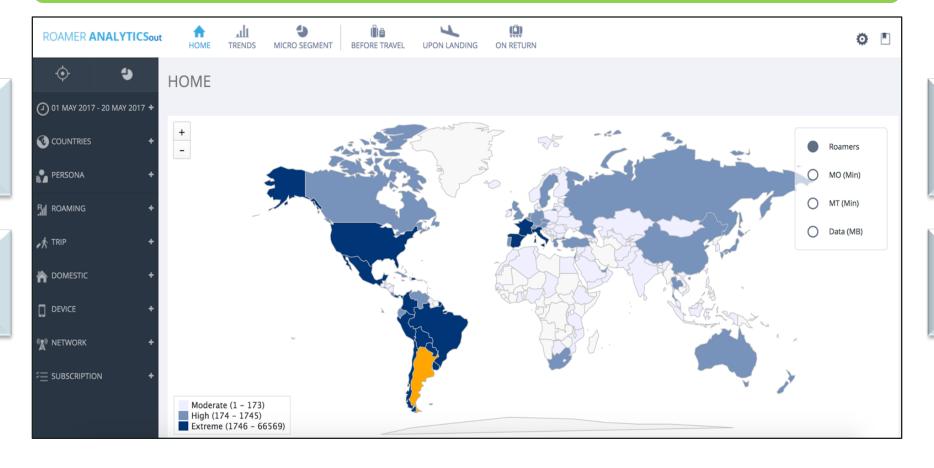


Retail analytics

Detect, identify and segment roaming users, and proactively address the opportunity to monetize their roaming status via targeted actions and offers

Near Real Time Silence Detection

Roaming
Category
Silent / Value /
Premium



Inbound /
Outbound
Roaming
Analytics

Open APIs for Call to Action

Maximize engagement opportunity by predicting next potential travel with analytics—driven insight and recommend packs for increasing roaming usage

LIKELY TRAVEL DESTINATION



LIKELY DURATION OF TRAVEL



EXPECTED USAGE

High / Low spender when local?
Heavy data user?
Specific app user?

NATURE OF TRAVEL

Business, Leisure, Family Visit, Migrant Worker's home visit, etc

DEVICE

Smartphone user? Which device? How long?

PREVIOUS TRAVEL EXPERIENCE

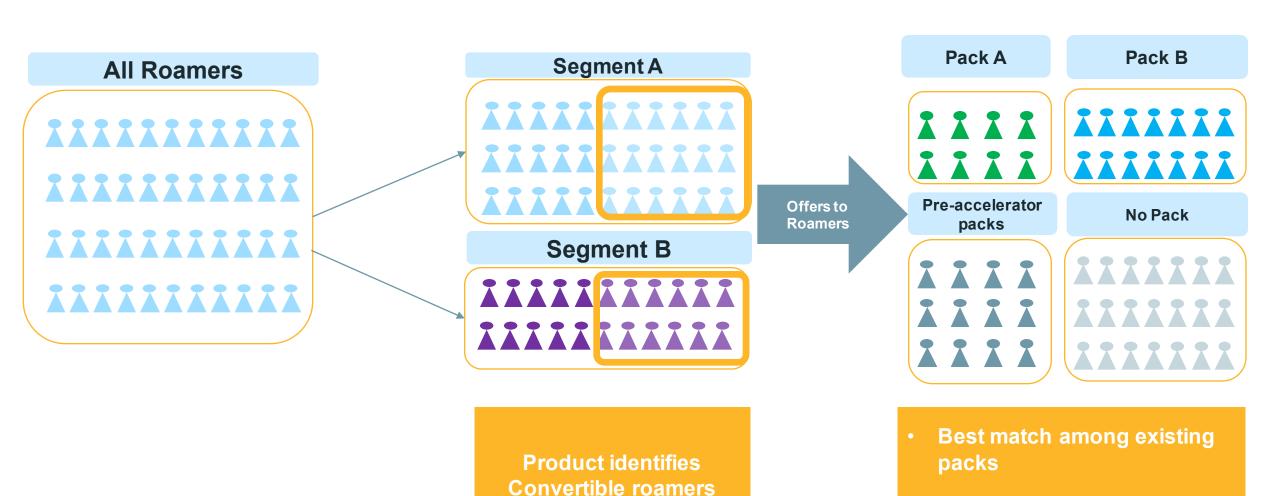
Bill shock during earlier travel?







Identify Personalized Offer

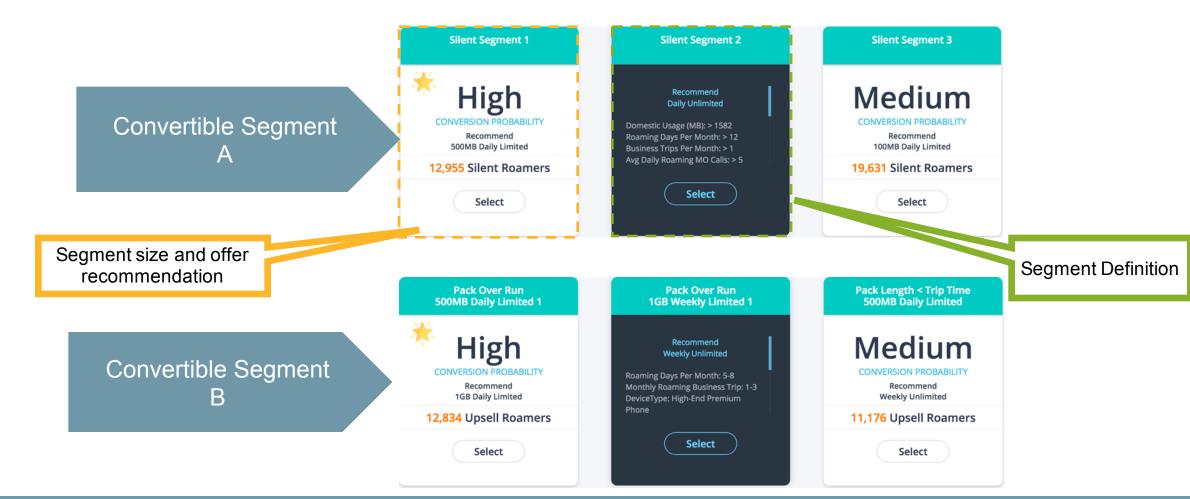


New Pack Recommendations



Translate Model Outcomes into Action

"Segment Recommendations" that indicate purchase propensity



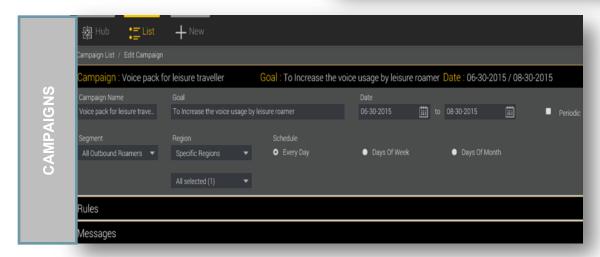


Call 2 Action for Internal Monetization

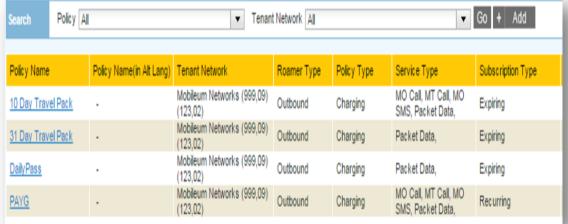


Accelerated Segments : Analytically derived Actionable Segments

Convertible Segments



PACKS / POLICY



Accelerated Pack & Policy Design

- Ready to activate Pack & Bundle types
- Enforce Policy Notify / Throttle / Block

Accelerated Campaigns Templates

- Pre-Built Rules Configurations
- Ready to launch Campaign Templates



Personalization at scale

Personalization is the elusive golden ticket





Call 2 Action for External Monetization











Insights

Market Share



Frequent flyers, business or leisure travelers who choose Our Airline or other airlines

Booking Preference



When our Airline's customers book tickets In which destinations our Airline is the preferred or non-preferred airline

Similar Travelers



Premium travelers who are not with our Airline but can be seen in Telecom data

Co-travelers



Family members or business associates who travel along

Family travelers



How many Airline travelers combine business and leisure? Their family choose other airlines

Baggage



 Predict baggage needs based on predicted travel persona or family travel



Business Challenges specific to Wholesale Roaming



Deal Building Simulations Forecasting

Settlement

Budgeting

Agreement Tracking

- Many agreements need to be signed and coordinated every month
- All operator data is stored in excel/word increasing the risk of mistakes

Deal Building, Simulation and Forecasting

- Manual calculation for trend analysis and profitability estimation per each deal
- Analyze Impact of deal on country and other Group/ Individual MNO
- Steering decisions without data driven intelligence

Settlement

- Manual processes for settlement and dispute identification
- Difficult to accurately forecast accrual every month

Budgeting

- Manual preparation of Budget reports and forecasts may result in error
- Consolidating Budgets across multiple stakeholders reports / Repeated efforts





What Wholesale Roaming Stakeholders need?

1. Budgeting **FINANCIAL PLANNING** 2. Business case 3. Forecasting 4. Revenue tracking Decision maker: Finance Head 1. Deal Building 1. Settlement 2. Deal Simulation 2. Reconciliation 3. Impact Analysis 3. Credit Payments 4. Margin Analysis 5. Agreement Mgmt. FINANCIAL SETTLEMENT TEAM

Decision maker: Roaming Head



Wholesale Analytics



Budgeting

- **Create and manage** roaming budget
- Monitor performance against forecast



- Create deal scenario through intuitive Builder
- Forecast traffic to use in deal simulation



- **Compare deal** scenario
- View deal recommendation
- Measure impact of deal on other **Operator and** Groups



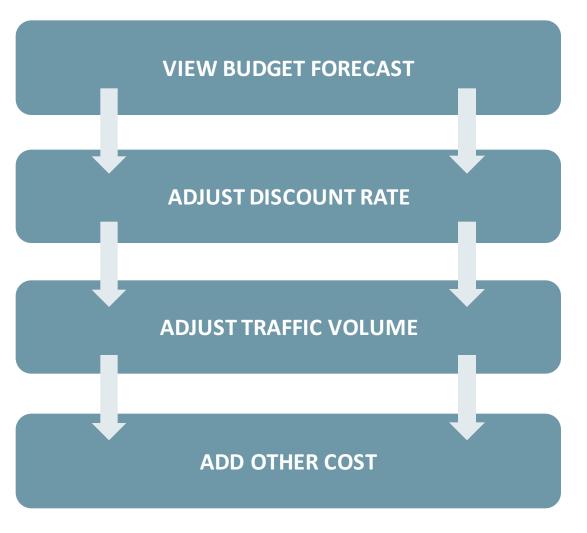
Tracking

- **Track performance** of all agreements and take action
- **Monitor traffic** steering to optimize margin



- **Generate monthly** accrual report
- Download templatized settlement report

Step 1: Budgeting



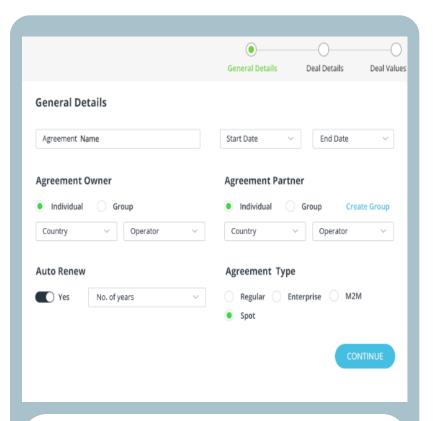
 View system generated Budget forecast for next year based on ongoing IOT rates and traffic forecast

 Adjust the discount rates for one of more Operator/ Groups based on expected IOT for the year

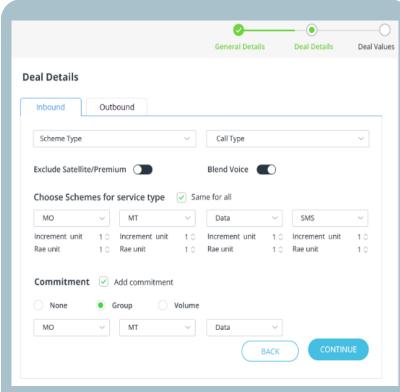
- Recalibrate the traffic for Operator or Group if expected traffic is know and not as per system generated forecast
- Additional cost like Interconnect, IPX/ GRX, IT, infrastructure cost can be added to budget to calculate Net Income



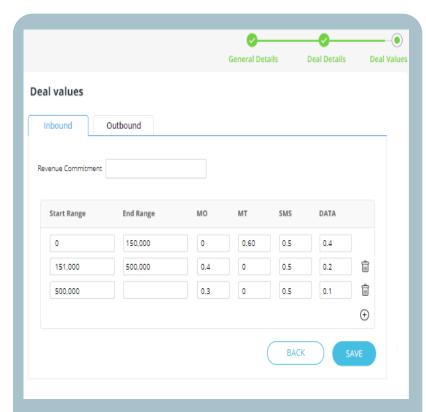
Step 2: Deal Builder



- Option to create Individual and Group deals
- Support for M2M, QCI, Enterprise agreements



- Flexibility to create complex deals using a combination of KPI.
- Intuitive selection criteria.



 Simplistic order entry format to enter pre-templatized deal structure



Step 3: Deal Simulation

- Create multiple deal scenarios
- Compare key roaming parameters

Build Deal scenarios

Recommendation engine

- Get recommendations for optimal deal
- Insights based on commitment, inbound traffic, volume growth

- View the impact of deal other operators, country and Group
- Consult and collaborate with other stakeholders for deal making

Deal Impact Analysis

Building different deal scenarios and selecting the most optimized model for improved wholesale margin



Step 4: Agreement Tracking



GLOBAL DASHBOARD



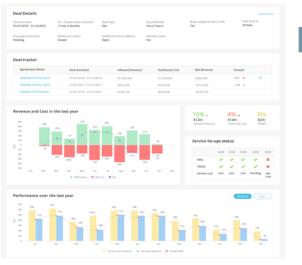
- Global heat map showing the performance of all country and partners
- Track performance of top roaming partner with respect to budget



COUNTRY DASHBOARD



- Manage avg. cost and margin targets
- Monitor commitment based on steering values



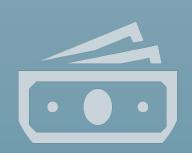
NETWORK DASHBOARD



- Capture weekly and monthly deviation in traffic/ revenue
- Forecast traffic and evaluate the impact of change on the budget



Step 5: Settlement



Settlement reconciliation

End of year settlement with roaming partner



Monthly accrual forecasting

Monthly allocation of provision for roaming budget



Settlement tracking & alerts

Alarms to avoid penalty for delayed payments



Invoice Audit

Reconciliation with credit/ debit invoice



Group operator settlement

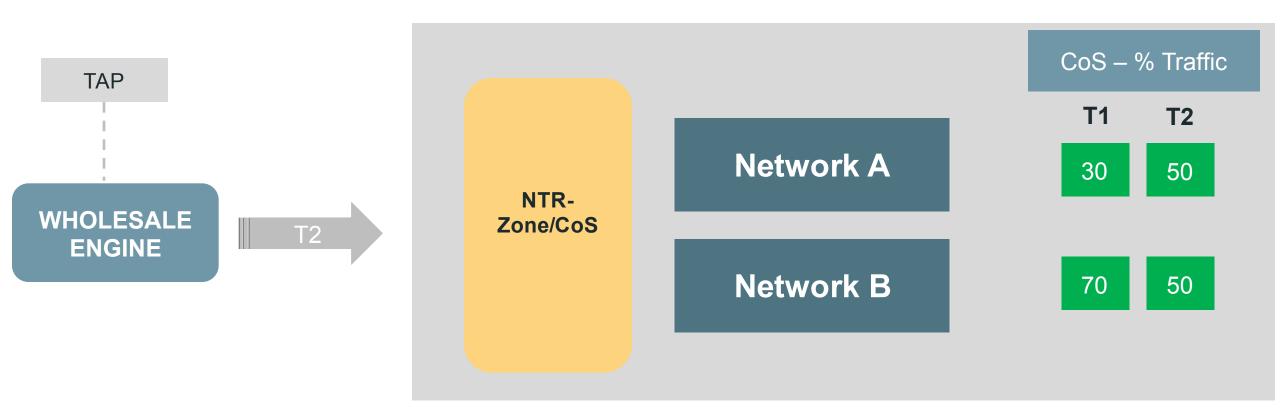
Opcos level reporting for Group operators

End to end tracking the status of discount settlement of roaming partners



Acts as Insights Engine to Steering

Steer Subscribers based on Wholesale Insights



Evolved Roaming V	Vholesale Agreements
for IoT	

• Support for Count based charging model (e.g. IoT) which only Mobileum can support

Complete Roaming View

Contextual retail packs based on wholesale cost

Unique Insights/Recommendations

Insights into Calls being Home Routing, PRNs and more.

Content Centric

• Deep insights and **recommendations** that are easy to understand and translate into business case for action

Cloud Based

 Hosted solution with prepackaged insights available for display as you like, delivering value immediately

