

**Autonomous Systems**

powered by AI

# Redefining the Fundamentals of Treasury Management with Artificial Intelligence

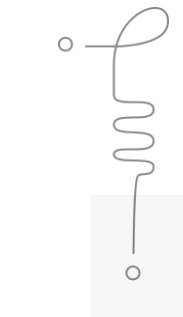
**Tracey Ferguson Knight**

Director of Solution Engineering, Treasury  
HighRadius



# Agenda

- **Technology Implementation Blueprint**
- **Cash Forecasting Process**
- **Cash Management Process**
- **AI enabled Treasury Management**
- **Q&A**



# Leading US Engineering Firm



Leading infrastructure firm designed many sports facilities, airports, bridges, tunnels, roadways, and rail and transit systems

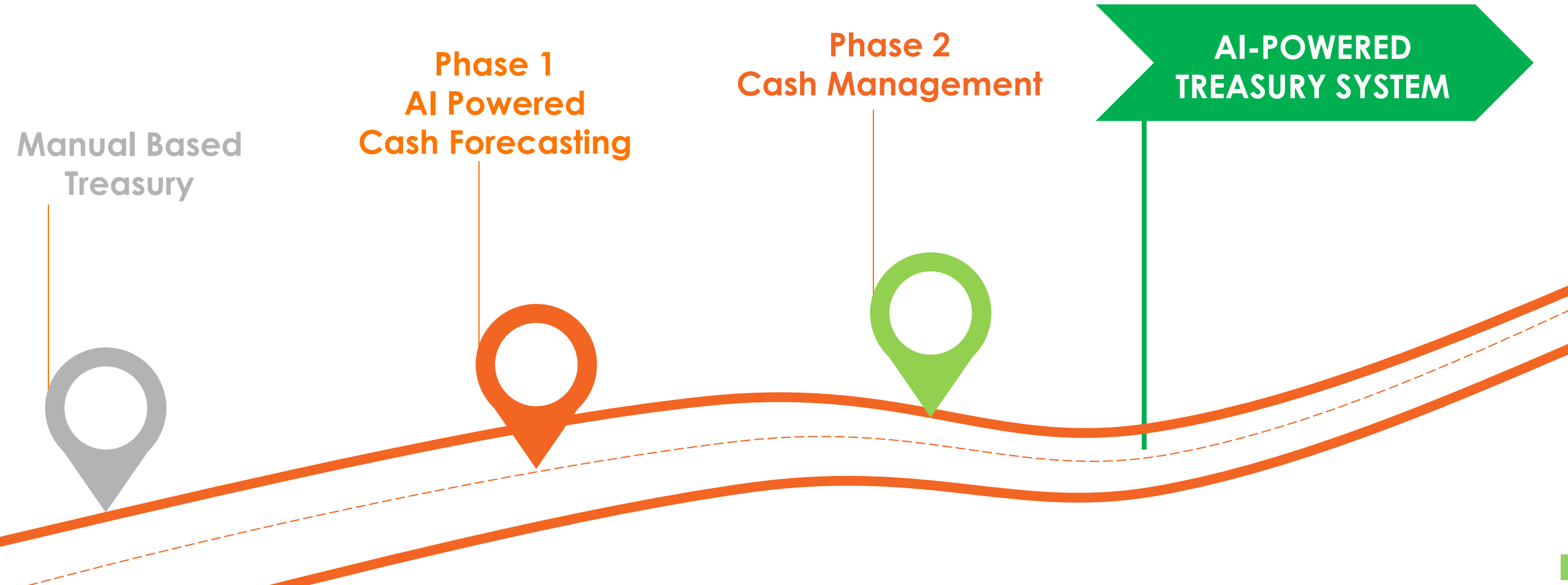


Founded in 1914, HQ in Kansas City



Global revenues exceeding \$1.5 BN

# Treasury Technology Implementation Blueprint



# Objectives of Cash Forecasting

## Three main reasons to forecast



Estimating year-end cash-basis income



Forecasting use of credit facility and interest expense



Maintaining credibility among the shareholders

# Challenges With Traditional Cash Forecasting Process

1800+ = 1800

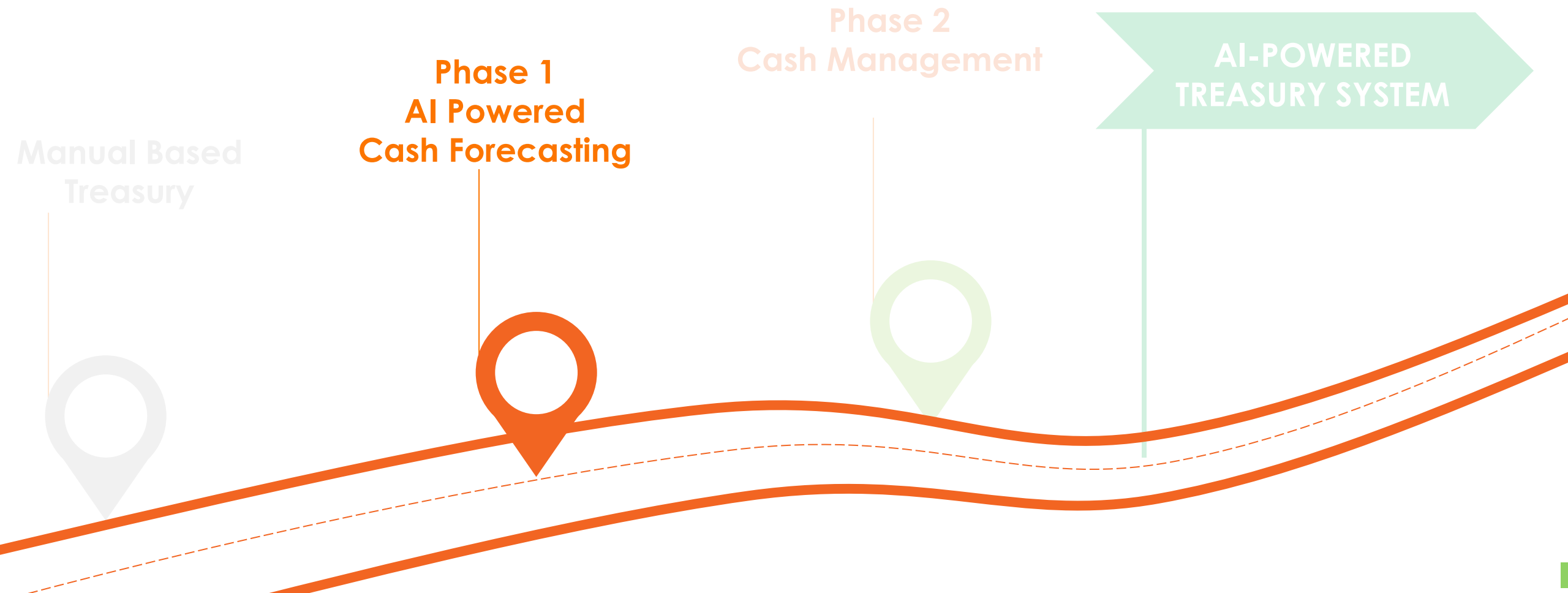
Contracts  
Clients  
Performance Data

Multi-level Projects

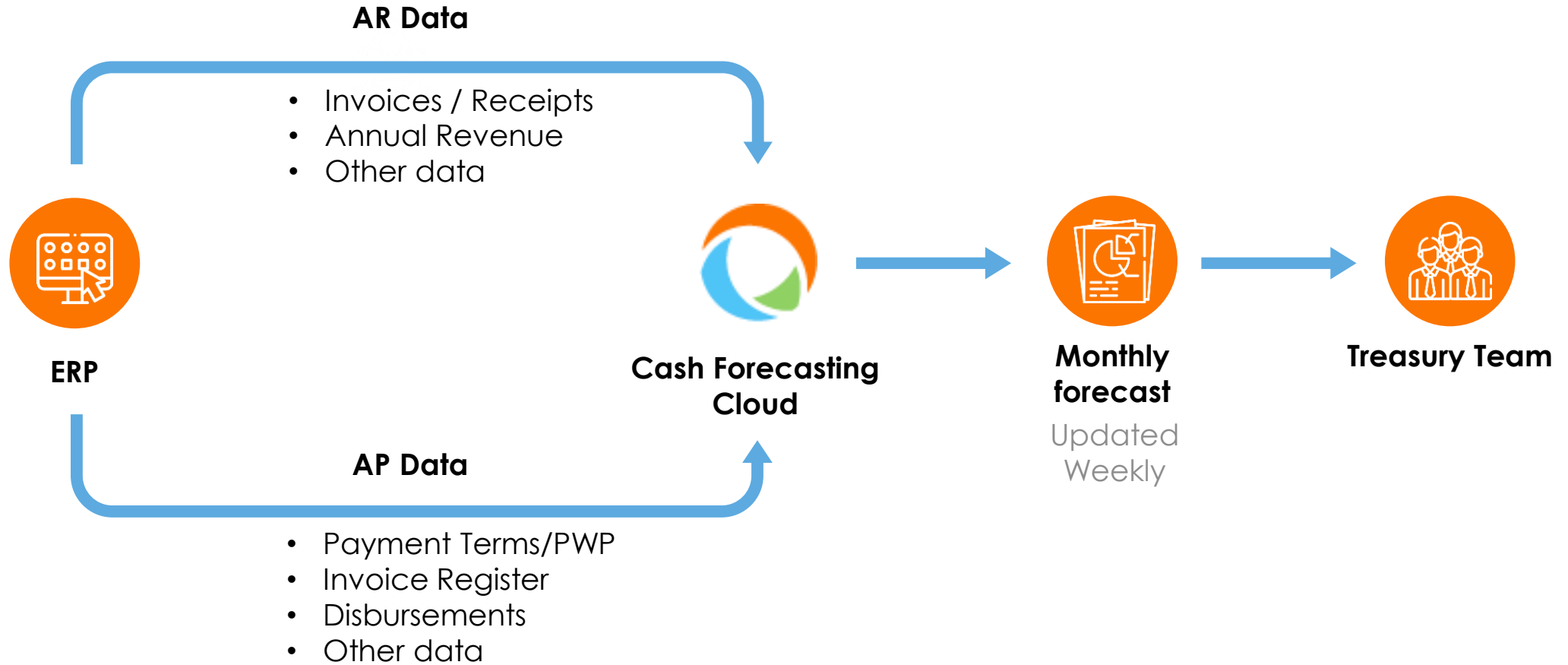
Inaccurate Top-Down Approach means

|      |          |        |   |   |
|------|----------|--------|---|---|
| 5235 | \$76,523 | Jun 21 | ✗ | Low Visibility into individual projects |
| 5234 | \$43,074 | Jun 21 |   |   |
| 5233 | \$12,387 | Jun 21 | ✗ | No Client-level Drill Down              |
| 5234 | \$31,500 | Jun 21 |   |   |
| 5235 | \$52,765 | Jun 22 | ✗ | Too many variables                      |
| 5236 | \$1,345  | Jun 22 |   |   |
| 5237 | \$23,750 | Jun 22 | ✗ | No process to interpret data            |
|      | \$12,921 | Jun 22 |   |   |

# Treasury Technology Implementation Blueprint



# Improved Process with AI-enabled Cash Forecasting





# Implementation Methodology



## Data Sciences

Analysis of data;  
Deep understanding  
of current process;  
Building of models



## User Acceptance Testing

An opportunity to  
parallel new forecast  
against current  
process



## Production

Adoption of new  
system into daily  
processes

# Results



**90-day net  
accuracy  
improvement**



**6-month net  
accuracy  
improvement**

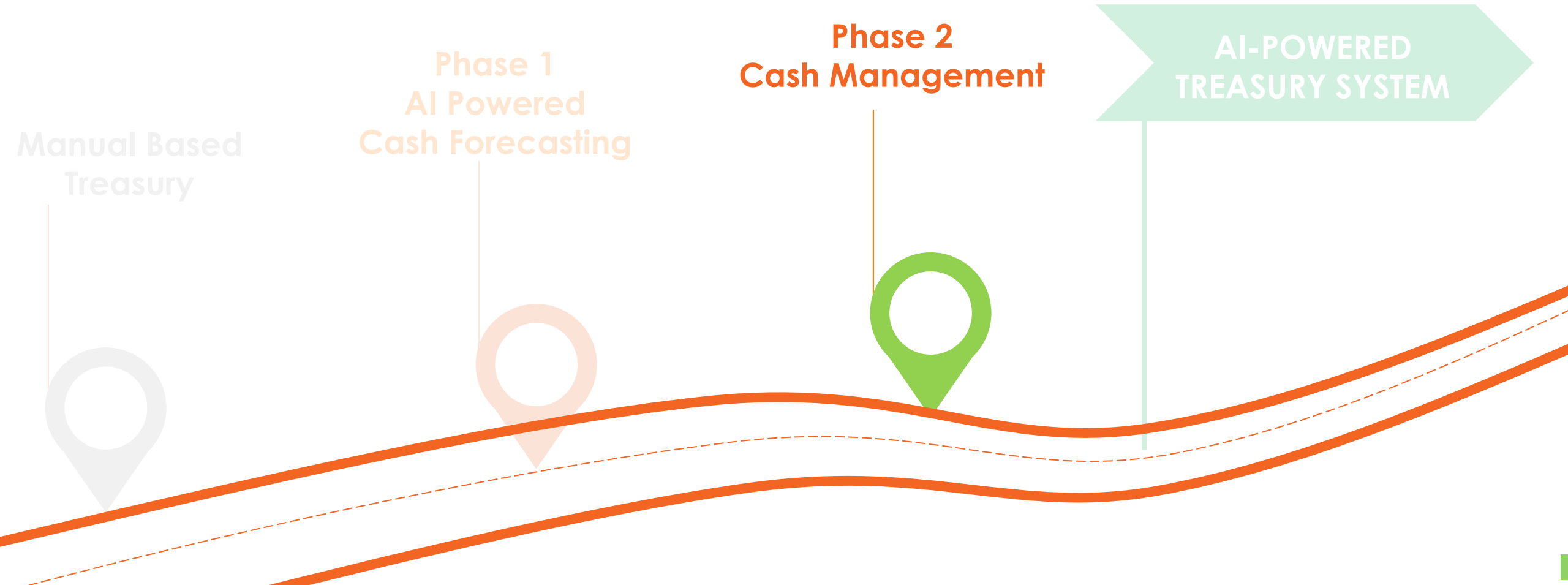


**90-day net  
accuracy**



**6-month net  
accuracy**

# Treasury Technology Implementation Blueprint



# Challenges in Cash Management



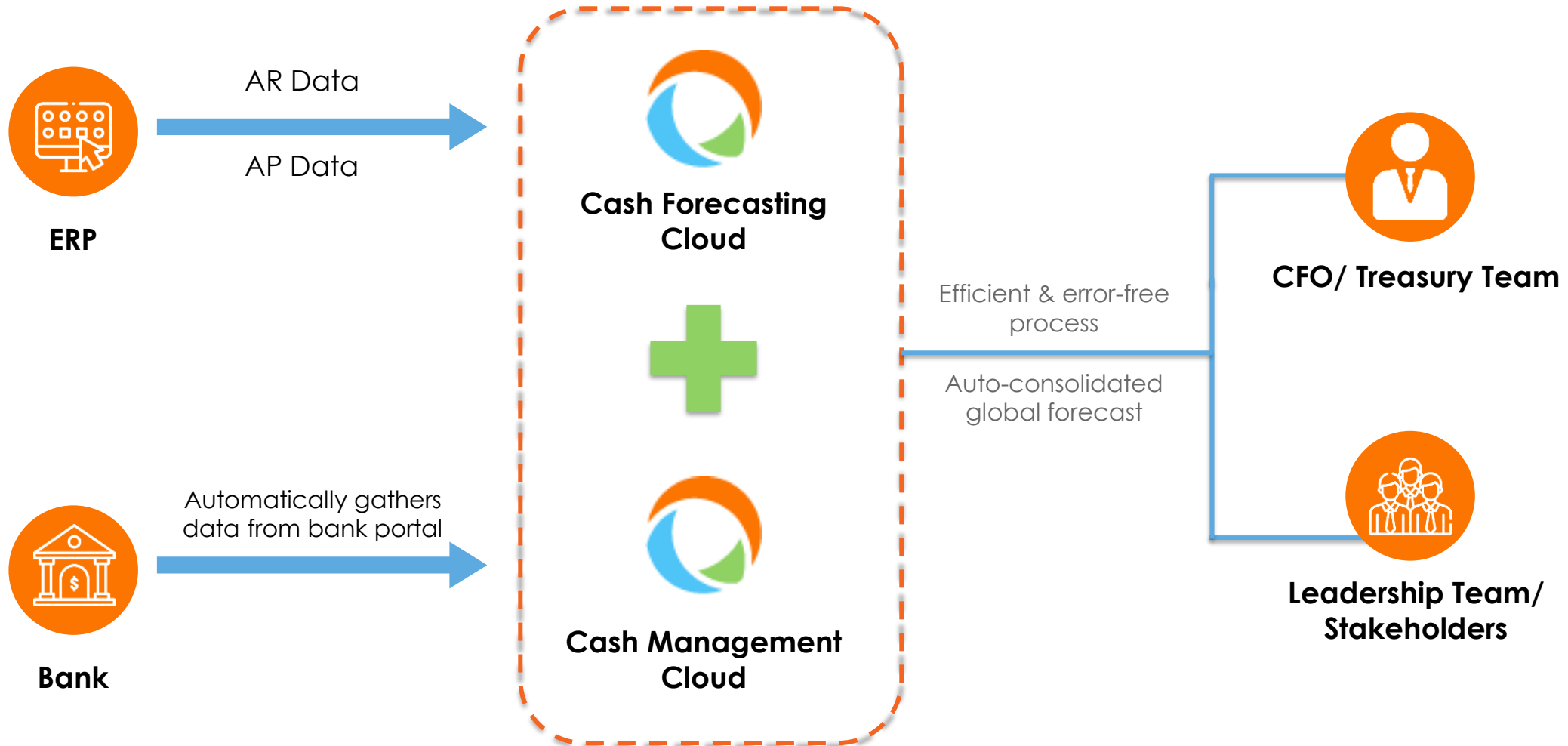
- Accesses many different areas within the bank portal on daily basis
- No consolidated view of cash positions

# Desired Outcome

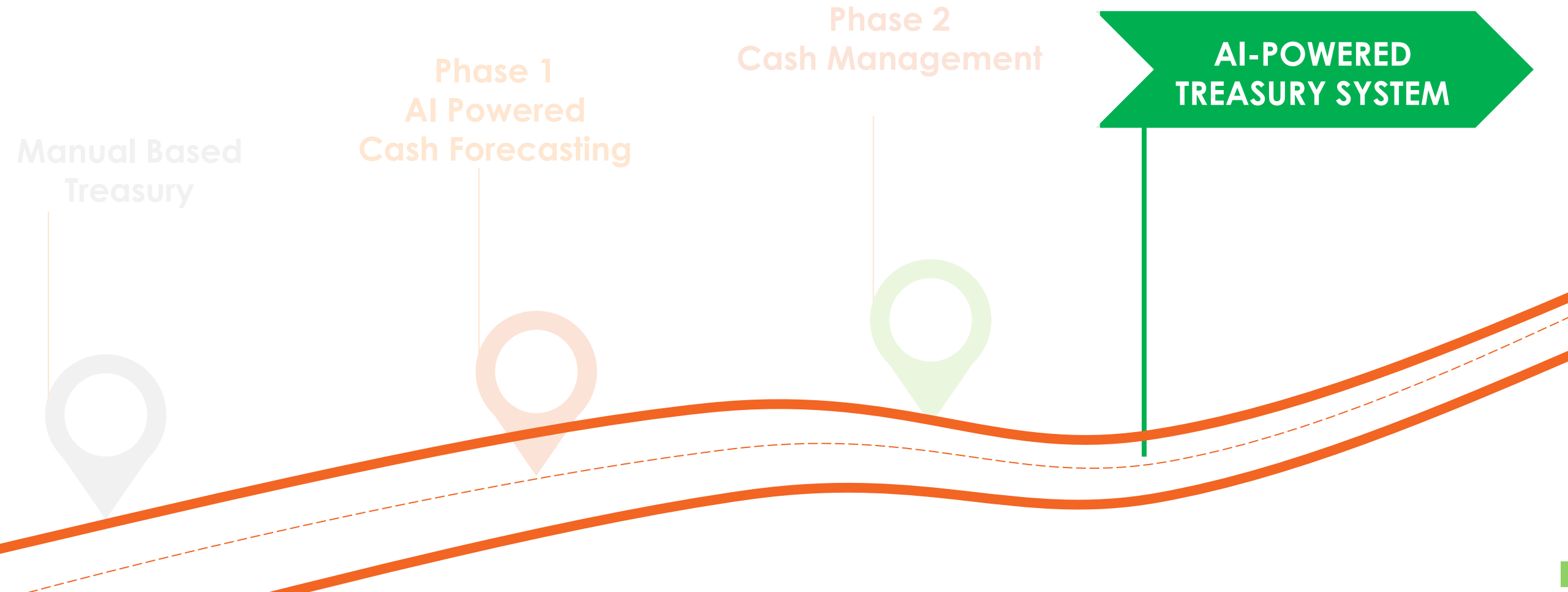


- Increase visibility for better Cash Management
- Increase confidence in investment decision making
- Providing a one stop shop to gain a holistic view of cash flows

# HNTB's AI-Enabled Treasury System



# Treasury Technology Implementation Blueprint



# Consolidated Dashboard View



## Treasury Dashboard

Last Updated: Feb 3, 2020 11:00 AM

FREEDA



### CASH POSITION

Previous Day  
**\$6.27M**

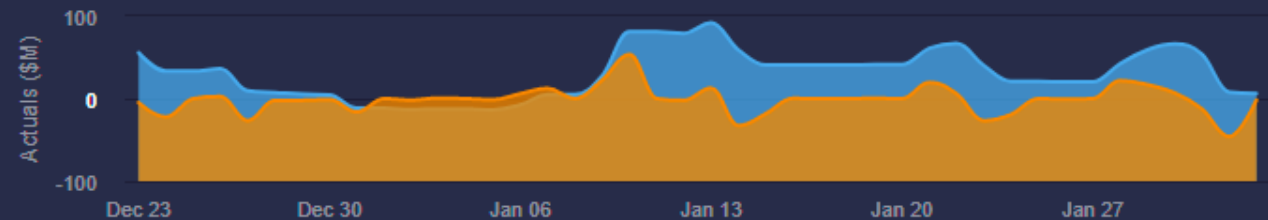
▲ 4.6%

Today  
**\$4.60M**

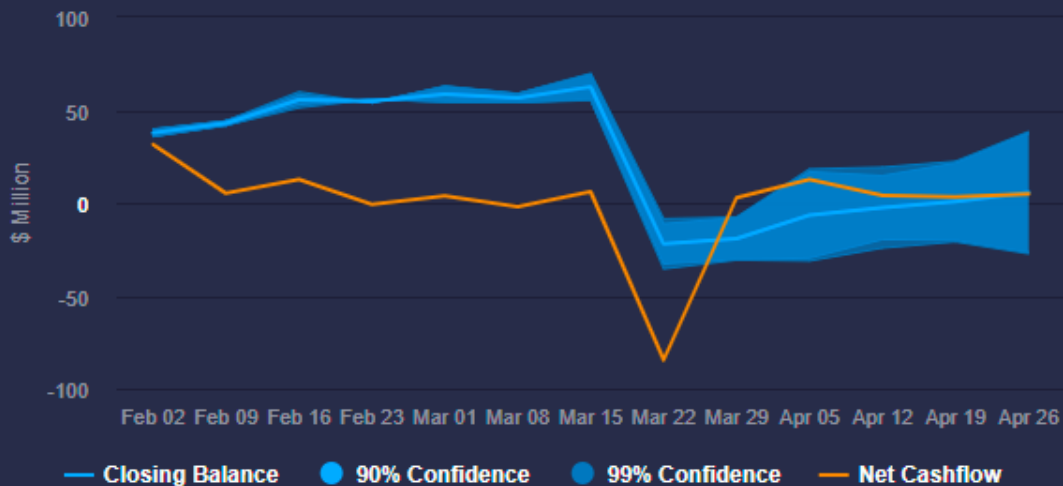
▲ 3.5%

EOW Forecast  
**\$4.44M**

### NET CASH & BALANCE TREND



### NET CASHFLOW FORECAST (3 MONTHS)



### FORECASTED CASH POSITION Next 3 Months

Lowest Balance  
On Mar 23  
**\$-22.02M**

Maximum Balance  
On Mar 16  
**\$62.50M**

### BANK RECONCILIATION

Status Update

**15 (20) Banks**









Thank you!

 highradius

# NEXT SESSIONS



Founder's Keynote

## *The Future of Enterprise Finance Software*

Sashi Narahari, Founder and CEO

09:35 AM EST | West Mezzanine Center

**BREAK:**  
*Visit The HighRadius Tech Stations*

10:05 AM EST

