





Headquartered in Austin, TX

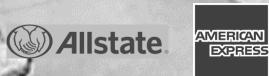
Offices in France and Switzerland



Partnered with Top Enterprise vendors including CA Technologies, IBM, Sencha



Helped over 400 Enterprises since 2010











Gulfstream



# Our Mission

"CM First builds the most reliable, rapid and cost effective enterprise software tools to optimize and transform mission critical applications."



# Today's Speaker



Roger Hammer

Director of Software Development & Services



# Challenges for Organizations with Software Factories







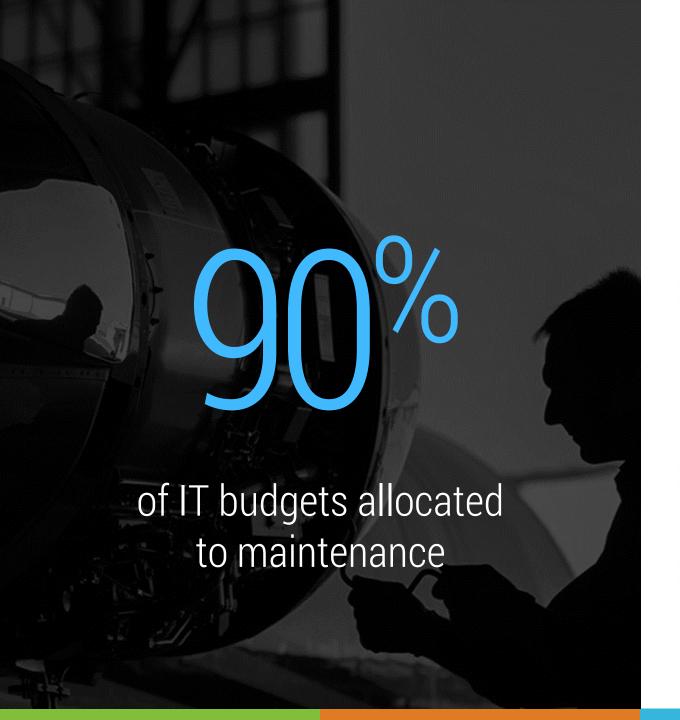


#### CIO's Concerns\*

- Cybersecurity / Compliancy with International security standards GDPR
- Legacy Systems top of mind for 890 CIOs polled
- Intelligent apps, devops and analytics
- Legacy applications (COBOL) without the skill base



<sup>\* 2017/2018</sup> Logicalis Global CIO Survey



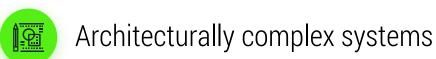
# Maintenance Challenges

- Significant Backlogs
- Retirements / Scarcity of New Resources
- Reducing DevOps Cycle times
- Complex, Interrelated Systems





# Modernization Challenges





Business rules not fully understood

Managing decommissioning risk



# INTRODUCING CM EVOLVEIT®



Demystify legacy apps with auto documentation



Work at scale; analyze entire code base



Highly automated

Scalable

Sophisticated



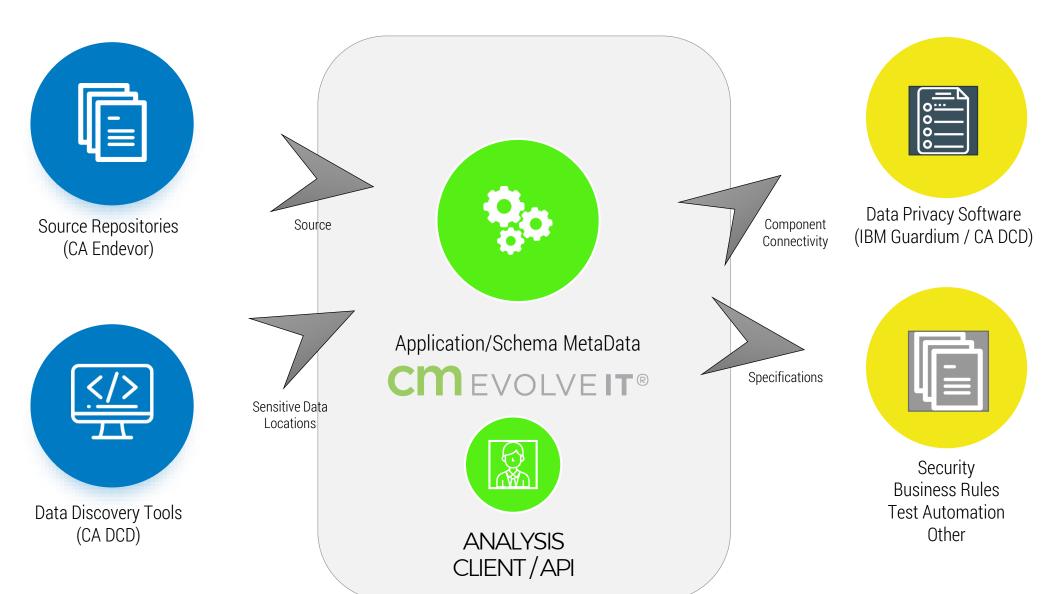
Code structure and quality management built in



Abstract business rules



### Enterprise Software Factory Ecosystem





# FOUR USE CASE DEMONSTRATIONS





### **Use Cases**

- Improve Project Quality
- Scope and Plan Projects
- Secure Mainframe Data
- Harvest Business Rules



## 1. Improve Project Quality

#### Need ability to:

- Measure quality using objective metrics
- Prioritize remediation
- See trends over portfolio



# DEMONSTRATION



## 2. Scope and Plan Projects

#### Need ability to:

- Accurately identify assets affected by change
- Assess risks based on metrics/facts
- Create clear documentation
- React to end of project year portfolio planning
  - Timely and accurate Information



# DEMONSTRATION



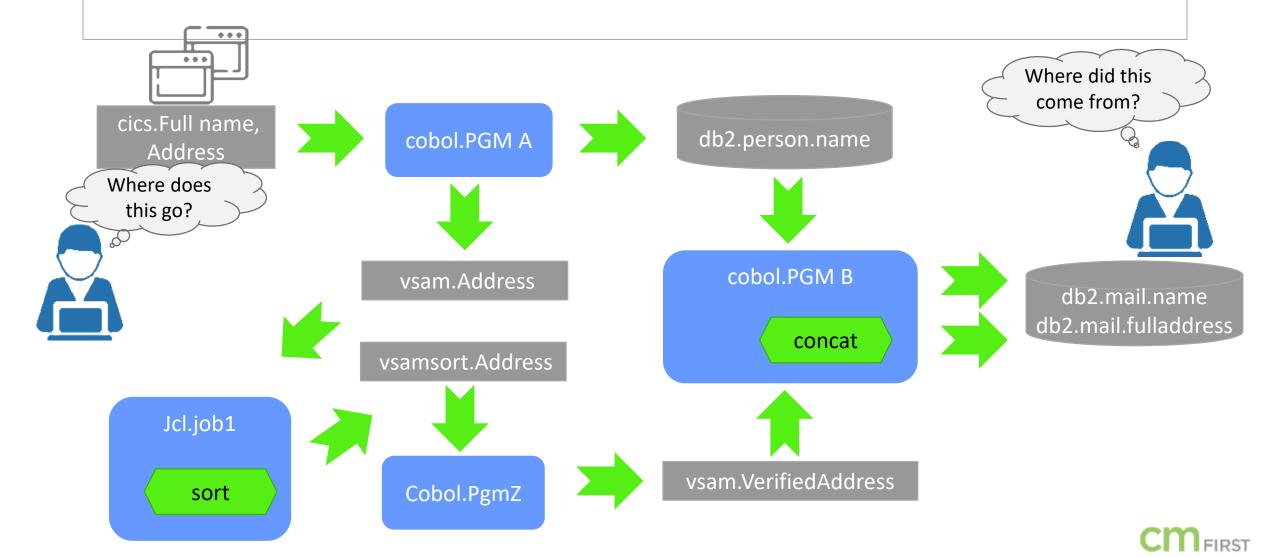
#### 3. Secure Mainframe Data

#### Need ability to:

- Identify sensitive data
  - Example: IBM Guardium / CA Content Discovery
- Respond to regulations and audits
- Take action in software assets using Data Lineage



## Forward and Backward Data Lineage



# BUSINESS RULES PROJECTS



## Business Rules Challenges

#### Need ability to:

- Integrate COTS packages with mainframe applications
- Enable digital business automation
- Decommission applications and subsystems
- Track rules for regulation and management



# Traditional Harvesting Approach



Read the program code to find the decisions



Get a definition of how the programs work rather than business rules



Create a definition of how to rebuild the current system



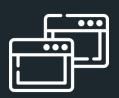
# CM EvolveIT Business Rules Approach Enables:

#### The ability to:

- Identify Business Processing based on Application Data Interfaces
- Filter out unwanted current architecture
- Identify Data Flow and Decisions relevant to Business Rules
- Store Data Flow and decisions in user definable Folder structure







Model the application with automated capture



Identify application related business process



Identify data interface for each process



Define the business terminology



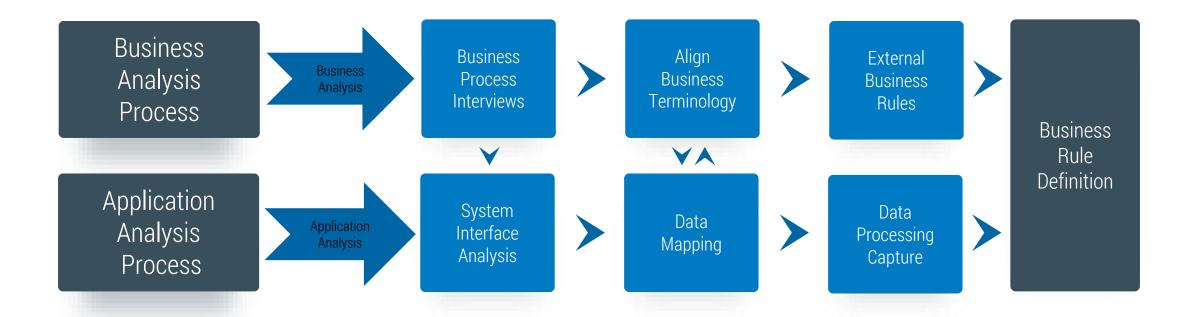
Complete the data logic trace



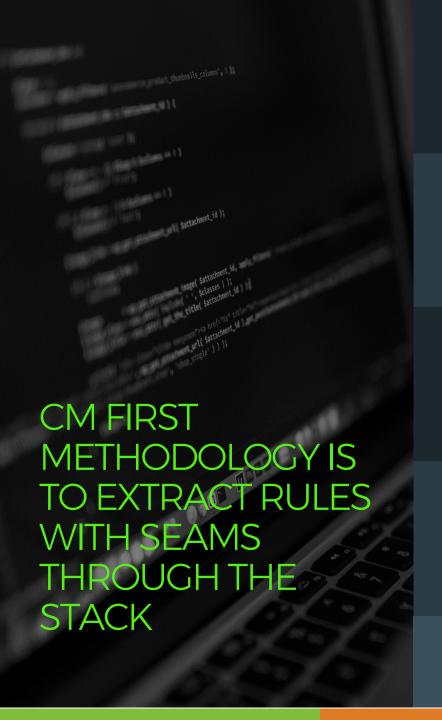
Combine to build business rules



# The CM First Group Rules Approach Combines Business & Application Analysis.





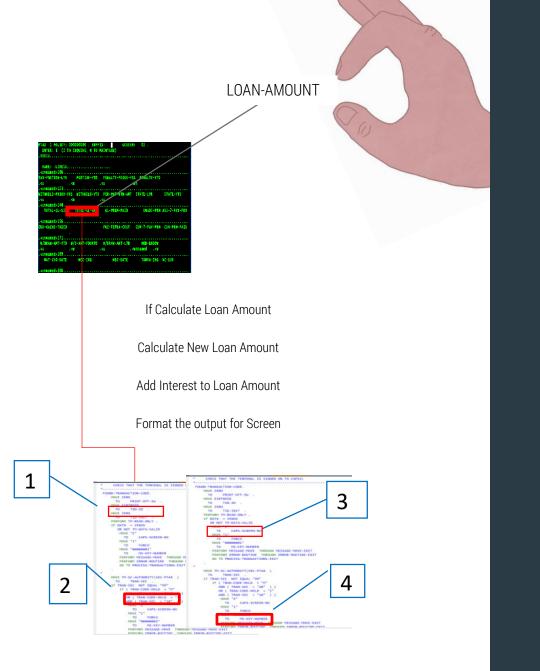


#### External Business Processes

Spreadsheets & Tables Natural Language Documents **Process Documentation** Each week a Customer Input Data Interfaces Messaging File Input / Output Screens Reports **EDI** Legacy Applications Schedule Batch Jobs COBOL Programs Copybooks Database applied to outstanding balance Output Data Interfaces F le Output Screens Reports Customers default 2% interest

> Each month a customer is in default, 2% interest will be applied to outstanding balance of the invoice

CM evolveIT enables the analyst to "Pull the String" on a field to find only the relevant source code



CM evolveIT Data Trace finds the source that impacts the business rules.

Filters out the source that is unrelated.

Taking Minutes instead of hours to understand how a field is created

# DEMONSTRATION



## CM First Business Rules Projects

- Project for International Shipping Company
  - Moving Mainframe modules (2MM LOC) to COTS package
  - Identify Business Rules in current application to enable COTS package Gap Analysis
- Project for \$4.5B+ Industrial Parts Distributor
  - Identify Business Rules in Mainframe Application
  - Rewrite to Java backend with Rest API's and Java Script Web UI.
- Train and Support Government Organization in Ongoing Business Rules Capture project
  - Organization had begun traditional Business Rules project and wanted to Validate Business rules and Identify Missed Rules.
  - Provided CM EvolveIT along with Training and customized documentation to support their Business Rules Validation effort.

#### Contact

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