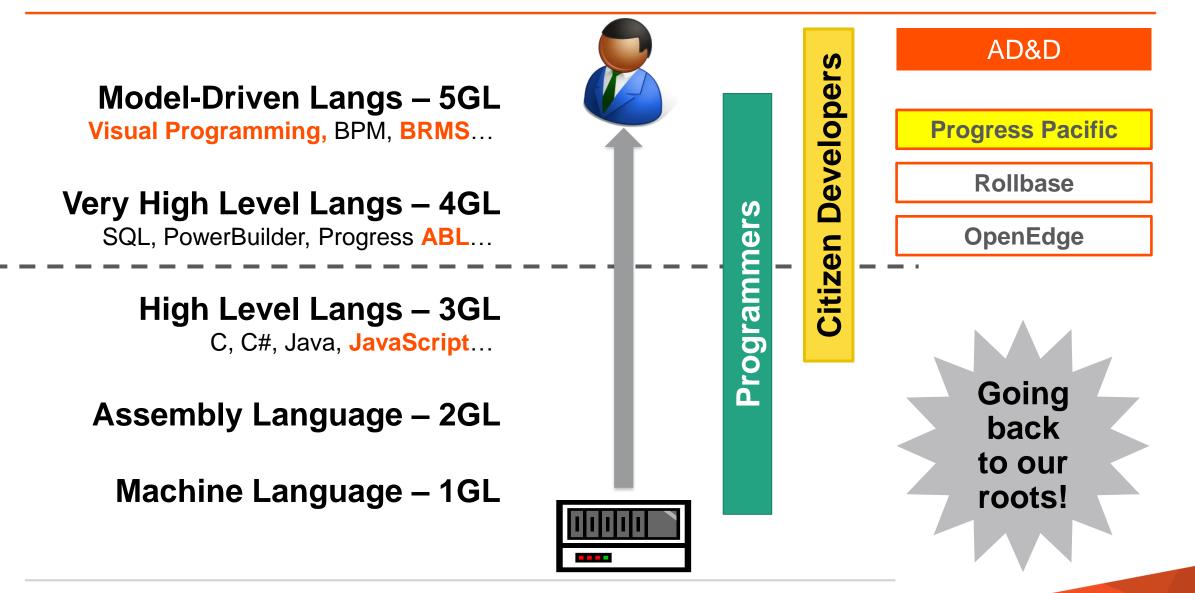
An End-to-End Model-Driven Platform: Progress Rollbase + Progress Corticon

Pedram Abrari VP of Engineering, Rollbase *Former CTO of Corticon* October 8, 2013

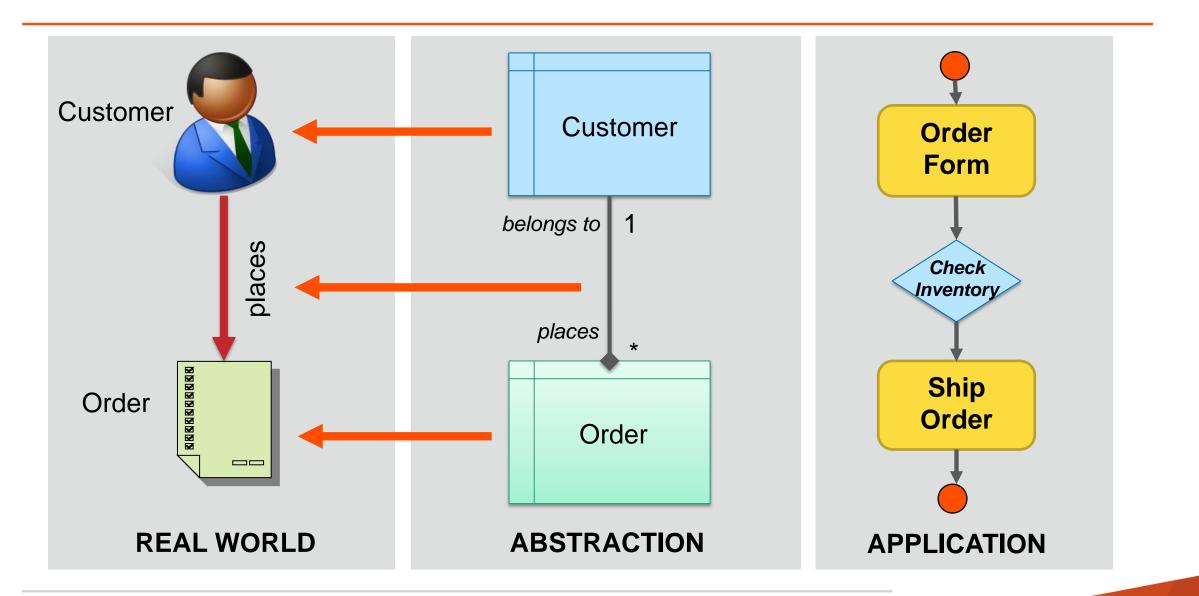


- Overview of Model-Driven Architecture
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- 2014 Roadmap

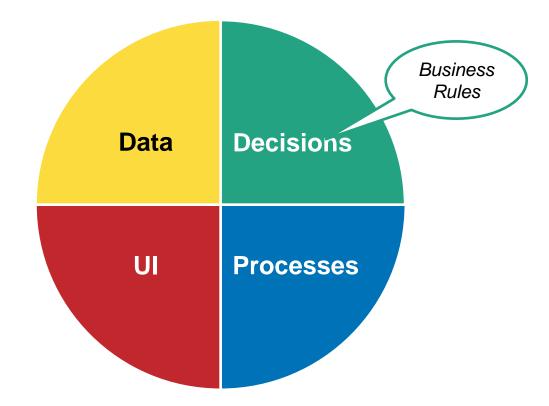
Generations of Programming Languages



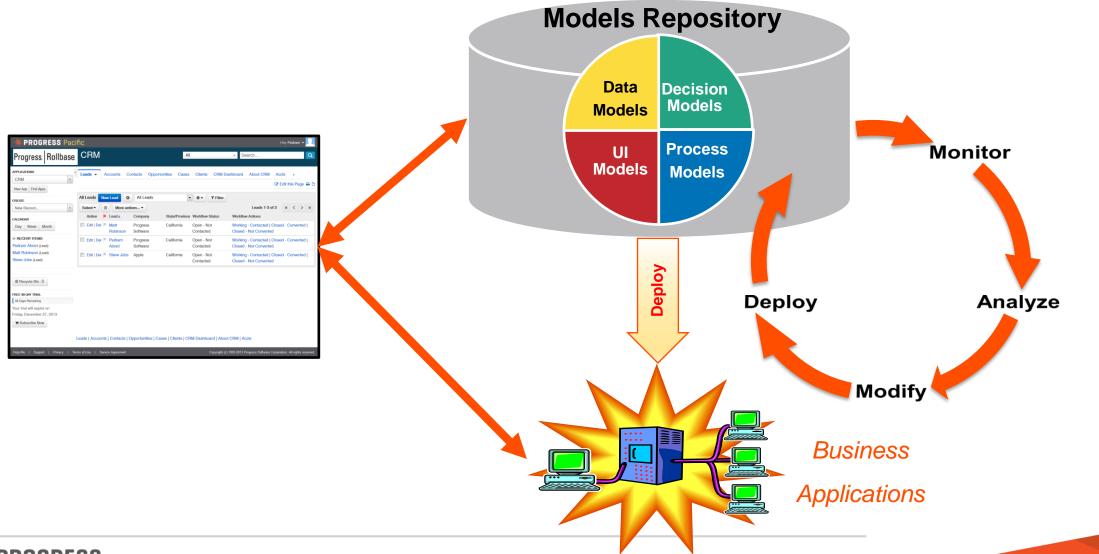
What Are Models?



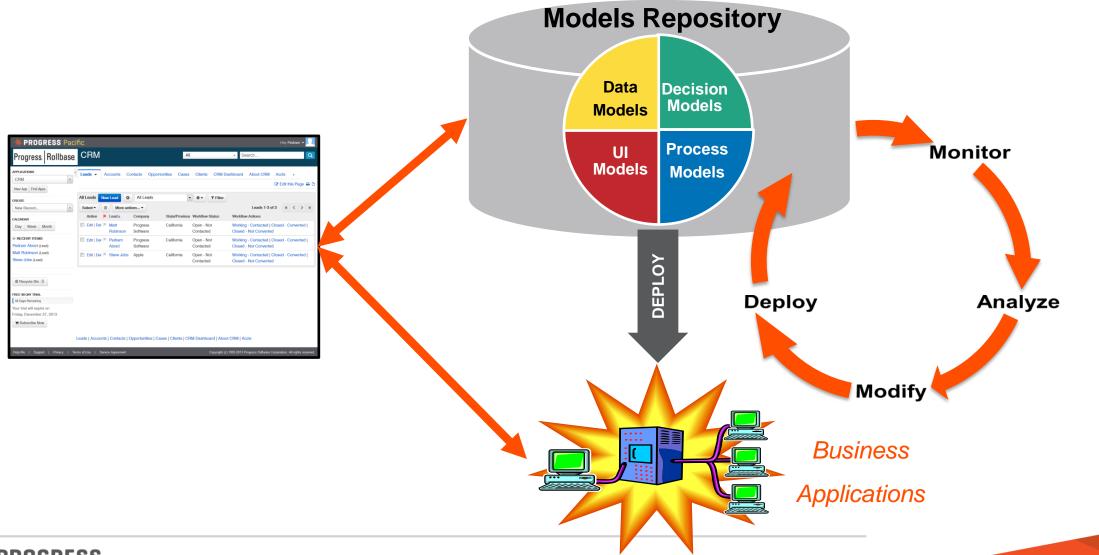
Application Modeling



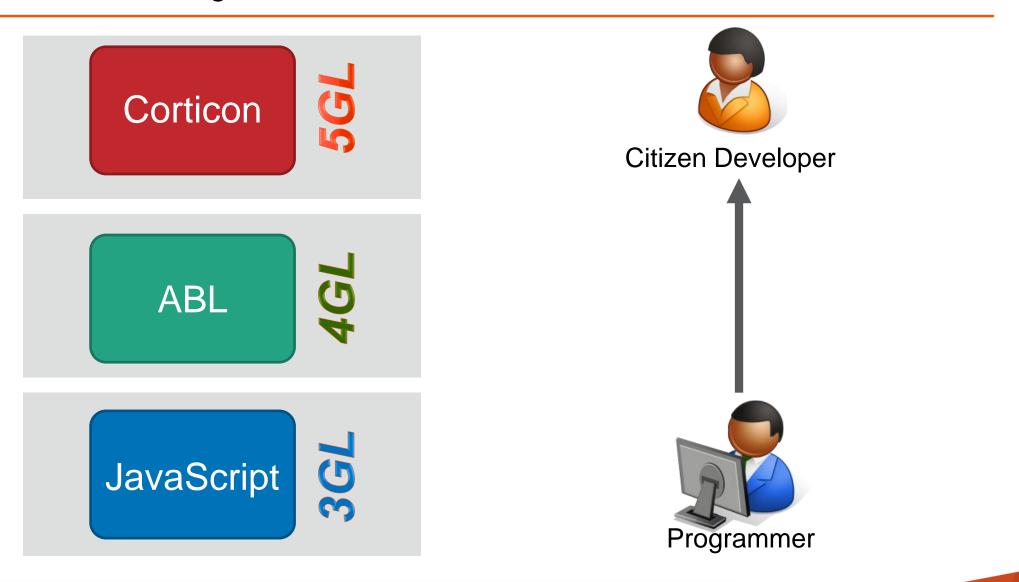
A Model-Driven Architecture



A Model-Driven Architecture

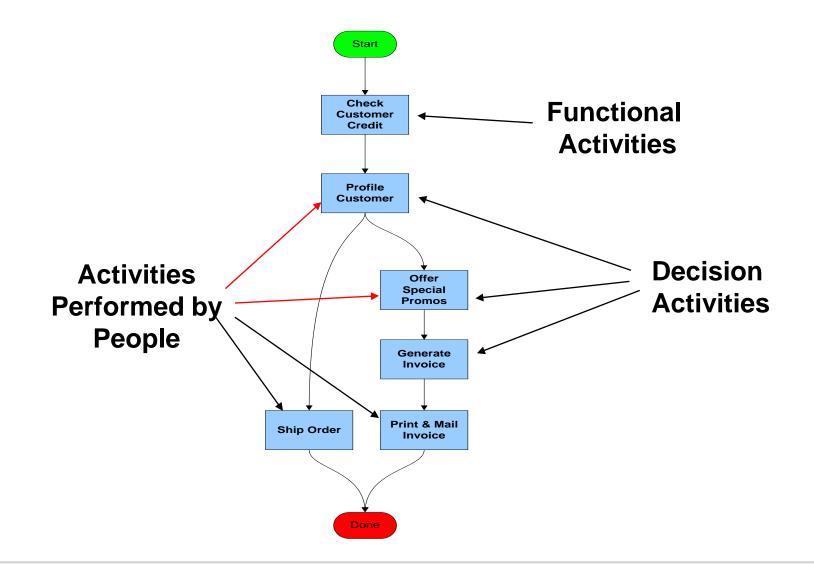


Progress Rollbase Server-side Business Logic

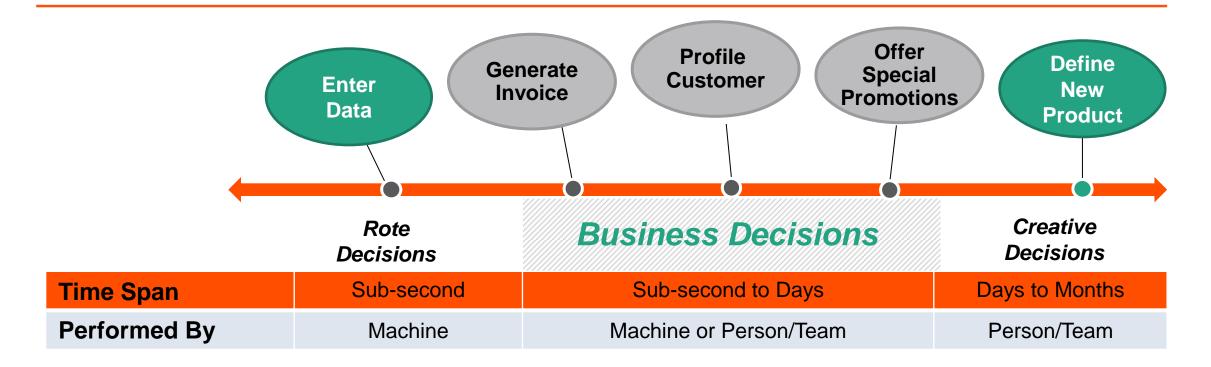


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Business Activity Types in a Typical Business Process



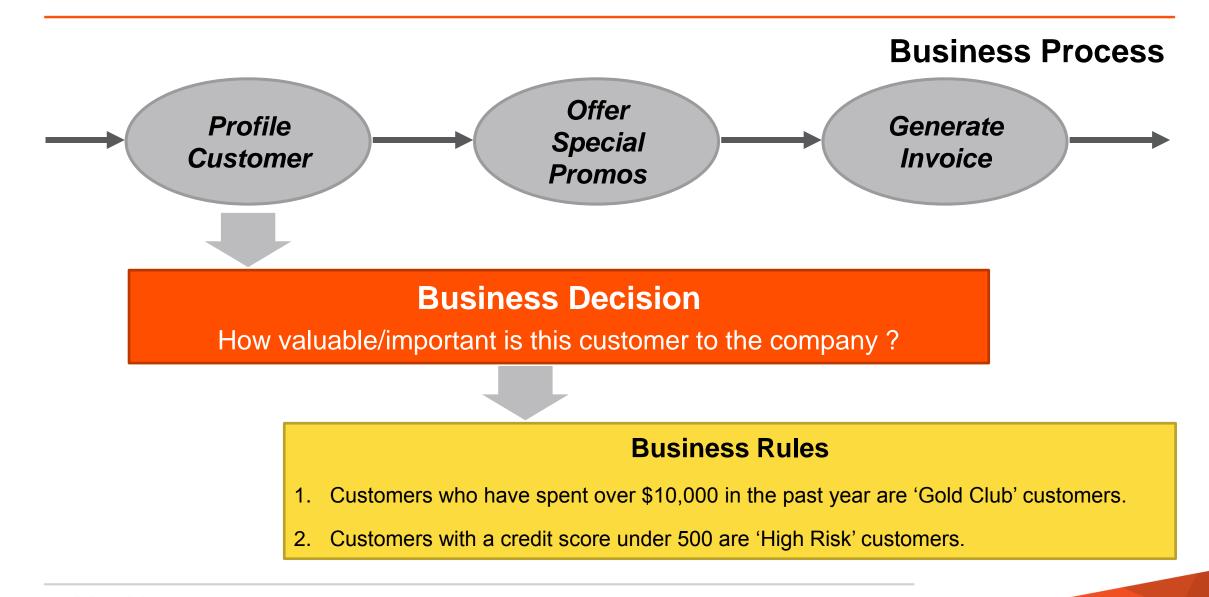
Decision Activities Resist Traditional Automation



Up to 70% of core business processes are business decisions

Internal Study based on IBM IAA Framework

Business Decisions Are Composed of Business Rules



Declarative vs. Procedural Paradigms

Declarative Paradigm

- What Needs to be Done
 - Business Rules Captured as a Set of Discrete Rules
- Spreadsheet Example: Sum

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	B8 🔽	=(=SUM(B2:B7))										
	A	В										
1	Employee	Salary										
2	Bill	\$40,000										
3	Jack	\$50,000										
4	Mary	\$45,000										
5	Jane	\$60,000										
6	Julie	\$70,000										
7	Mike	\$65,000										
8	Total	\$330,000										
9												

Procedural Paradigm

How to Do It

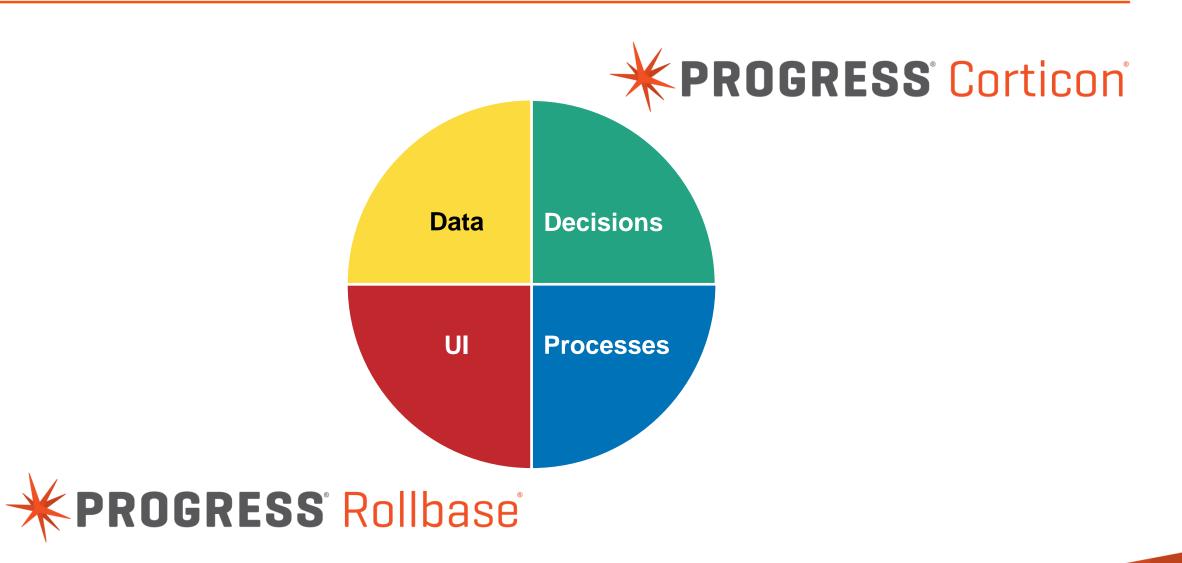
- Business Rules Hard-coded into Application Logic
- Code Example: Sum

Integer i
Float tmp
tmp = 0
For <i>i</i> = 2 to 7
tmp += B[i]
Next I
B[8] = tmp

"WHAT Not HOW" C.J. Date

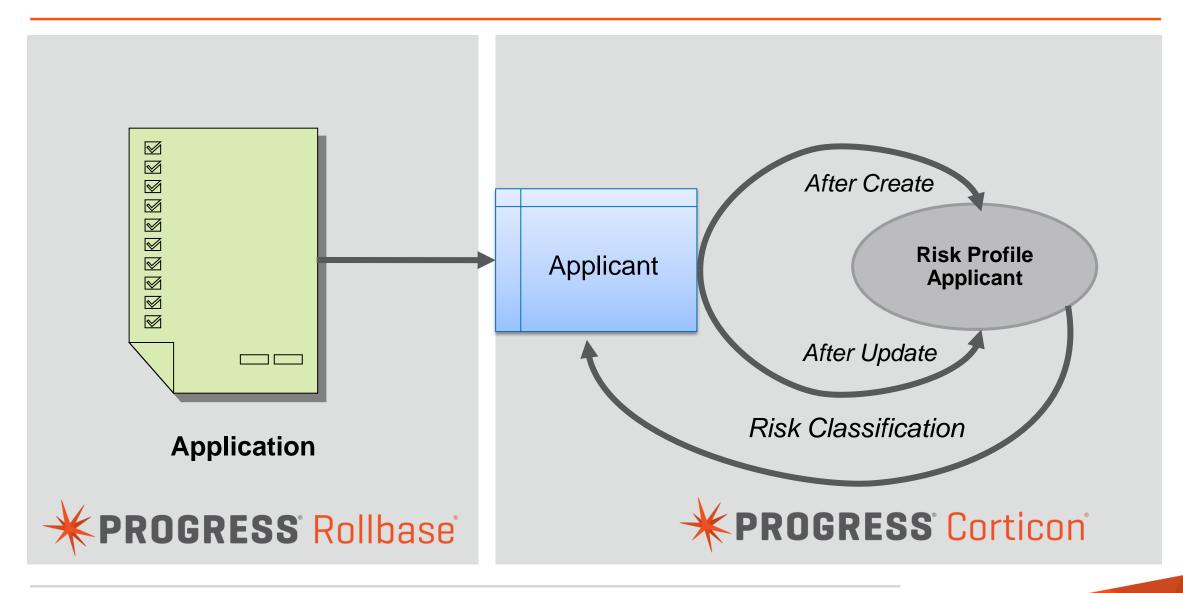
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Progress Pacific PaaS – A Model-Driven AD&D Platform





Sample App – Rollbase + Corticon Life Insurance



Demo

PROGRESS Rollbase

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SkydiverRiskRatings (Trigger)	🔲 Edit Del 📕 j	im	23		Low	Applicants less than 35 years of age have a Low Risk rating.	09/30/2013 11:09 AM	First Admin
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Progress Pacific 2014 Roadmap Deeper Integration of Rollbase + Corticon

- Embedded Corticon Rule Engine within Rollbase Platform
- Share Object Model
- Decision Triggers
 - Invoked based on Object Lifecycle events
 - As standalone invocation
- Web-based Decision Modeling within Rollbase Platform
- Support for Fully Model-Driven Application Development



PROGRESS