



Managing Proactively the Health of Insurance Members

With Event-Driven Processes Running On
Red Hat Process Automation Manager

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Agenda

- ▶ What is Population Health Management
- ▶ A Simple Event Driven Framework
- ▶ Demo
- ▶ Q&A

Mary's Chronic Condition

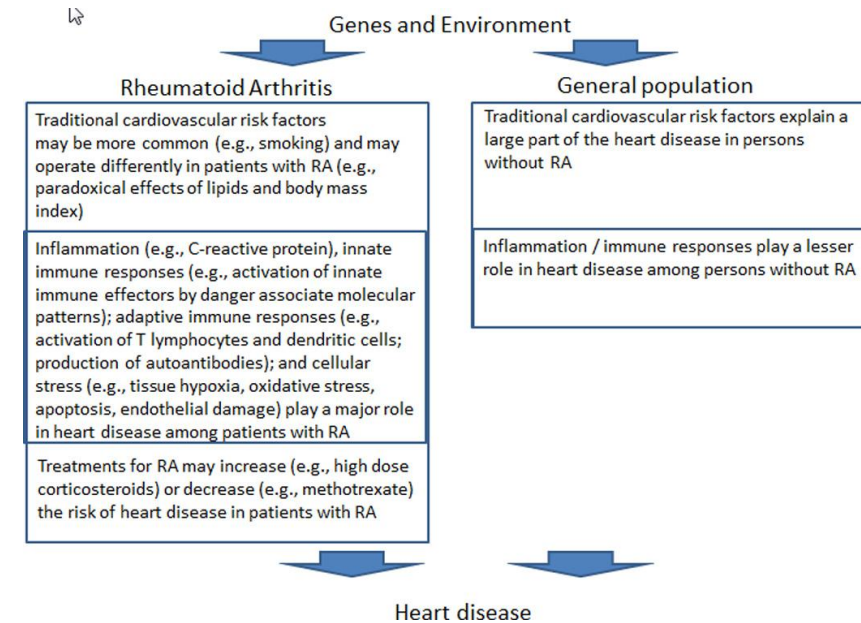


- ▶ Mary has rheumatoid arthritis
- ▶ She takes a Disease-Modifying Antirheumatic Drug (DMARD)
- ▶ She runs out of refills

Table 2 – A menu of DMARDs for treatment of rheumatoid arthritis

DMARD	Usual maintenance dosage	Route of administration
Adalimumab	40 mg once every other wk*	Subcutaneous
Anakinra	100 mg daily	Subcutaneous
Azathioprine	2 - 3 mg/kg/d	Oral
Cyclosporine	2 - 5 mg/kg/d	Oral
Etanercept	25 mg twice/wk or 50 mg/wk	Subcutaneous
Hydroxychloroquine†	400 mg/d	Oral
Infliximab	3 - 6 mg/kg every 4 - 8 wk	Intravenous
Leflunomide	10 - 20 mg/d	Oral
Methotrexate	7.5 - 25 mg/wk	Oral, subcutaneous
Minocycline†	100 mg bid	—
Parenteral gold	25 - 50 mg/wk	Intramuscular
Sulfasalazine	2 - 3 g/d in divided doses	Oral

DMARD, disease-modifying anti-rheumatic drug.
 *Dosing may be 40 mg every week if used without methotrexate.
 †At present, there is no evidence that these DMARDs decrease radiographic progression of joint damage.



- ▶ DMARD can decrease the chance of heart disease

Population Health Management

- ▶ “Population health management refers to the process of **improving clinical health outcomes** of a defined group of individuals through **improved care coordination and patient engagement** supported by appropriate financial and care models.” American Hospital Association
- ▶ PHM is achieved by
 - aggregating patient data across multiple health information sources,
 - analysing that data into a single, actionable patient record, and
 - **performing concrete actions through which care providers and payors can improve both clinical and financial outcomes.**

This is Population Health Management in Action



- ▶ Peter, Mary's doctor, writes a new prescription for her



- ▶ Robert, the pharmacist, fills the prescription

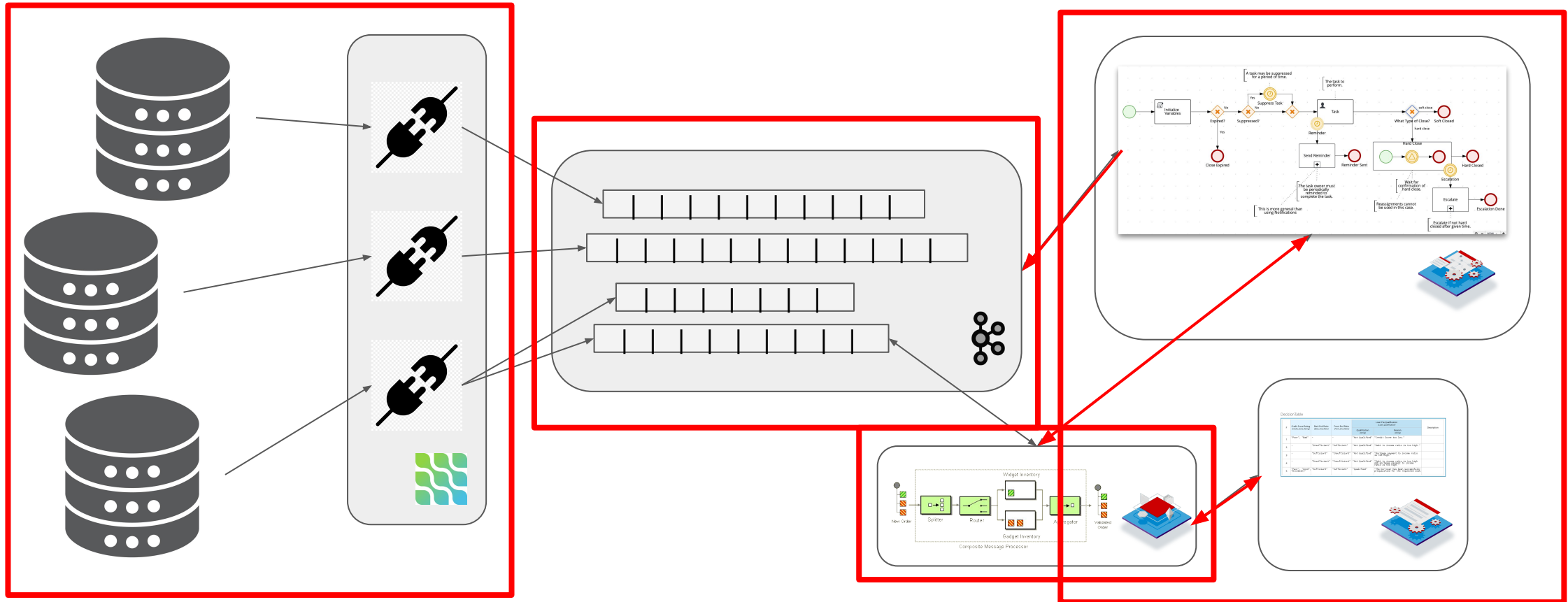


- ▶ Mary's health and wellness are taken care of

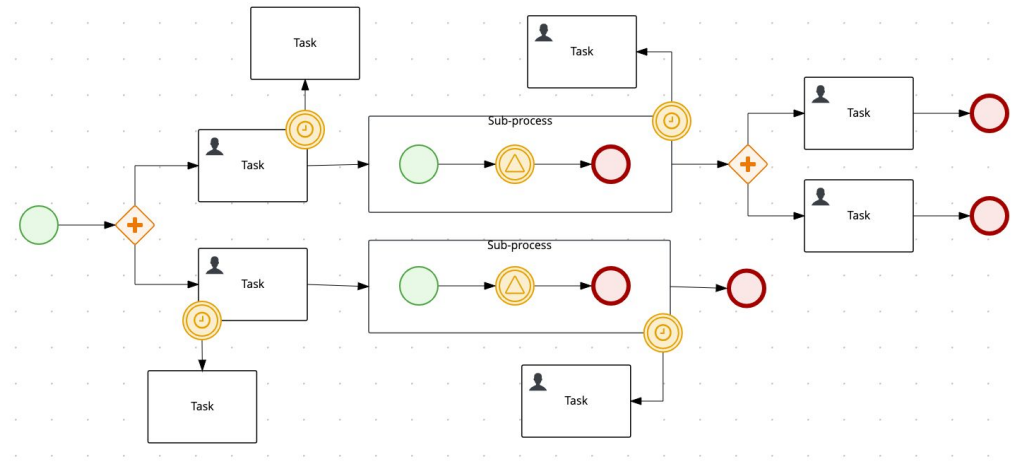
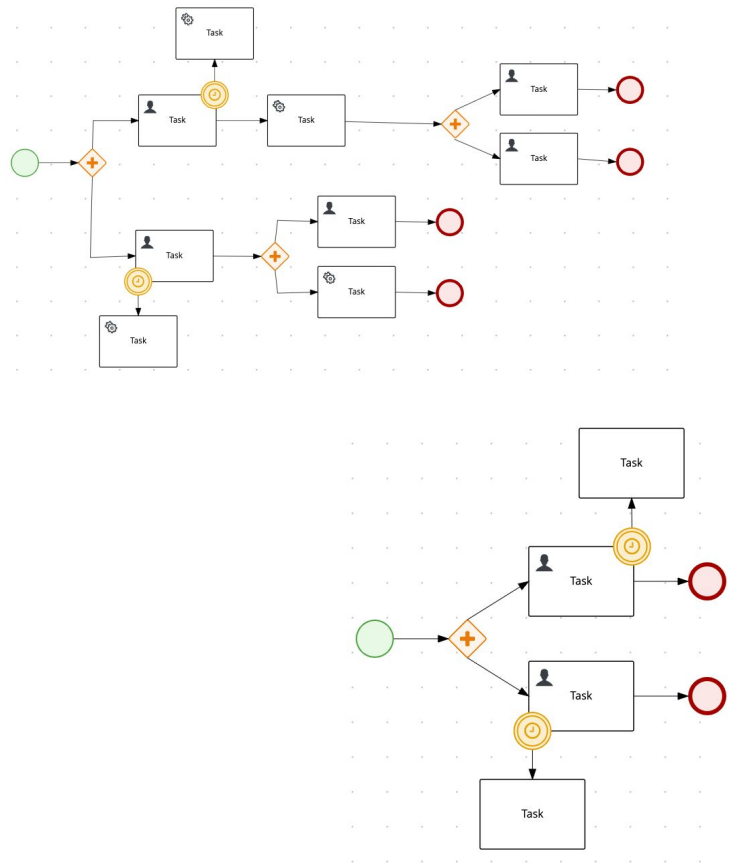


- ▶ Mary's (and many others) claims cost is under control

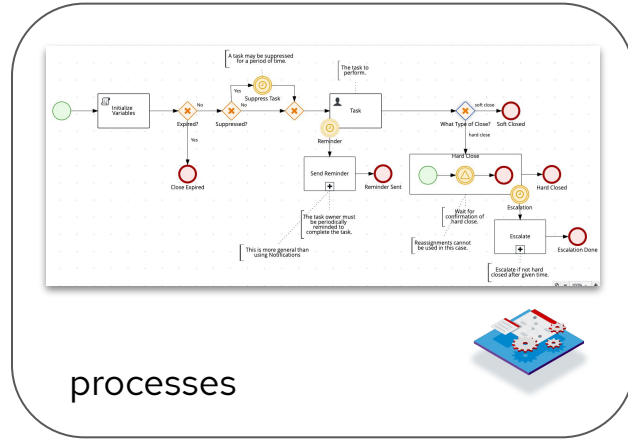
Designing a PHM Architecture that Scales with the # of Events



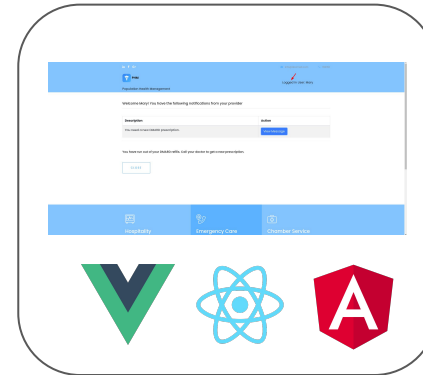
Designing a PHM Architecture that Scales with the # of Event Definitions



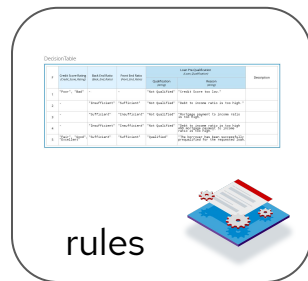
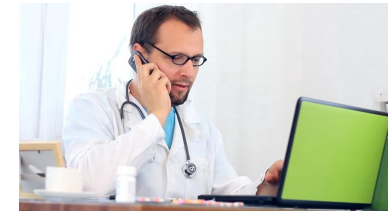
Designing a PHM Architecture that Scales with the # of Event Definitions



processes



end-user-ui




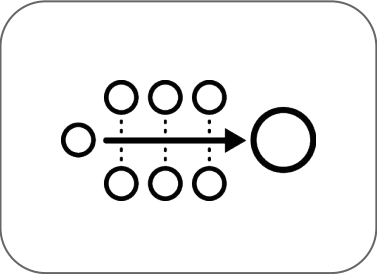
rules


- Configuring workflows with business rules NOT coding
- Data-driven dynamic workflow
- One workflow to rule them all
- Dynamic end-user UI

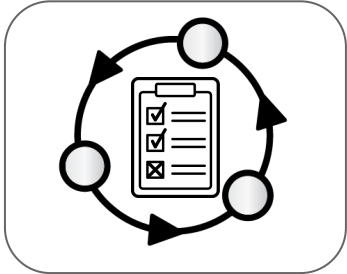
Business Automation Offering

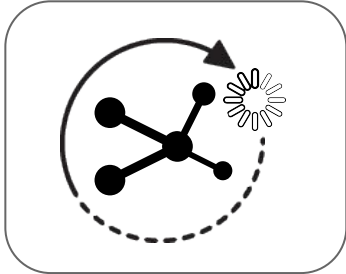
Key features

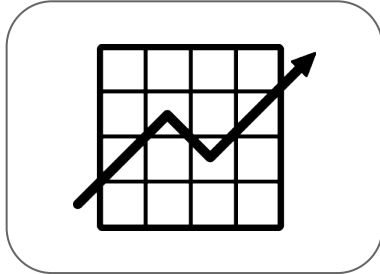
 **Red Hat**
Process Automation
Manager


 Process/Case Management

 API driven UIs (Bring your own Framework)

 Business Rules Management

 Complex Event Processing

 Business Optimizer

 **Red Hat**
OpenShift

PHYSICAL VIRTUAL PUBLIC CLOUD PRIVATE CLOUD

Demo Time







Questions?

Thank you

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