

## What if...

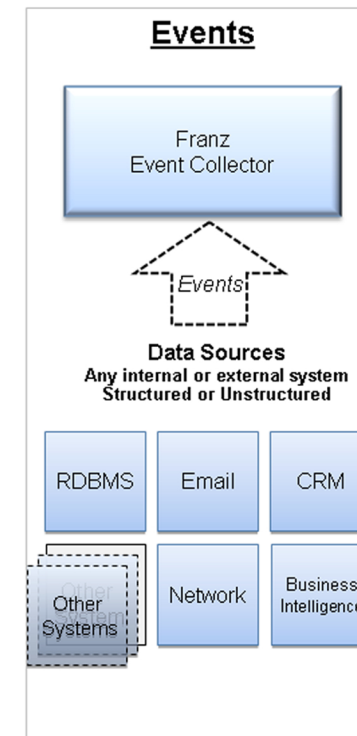
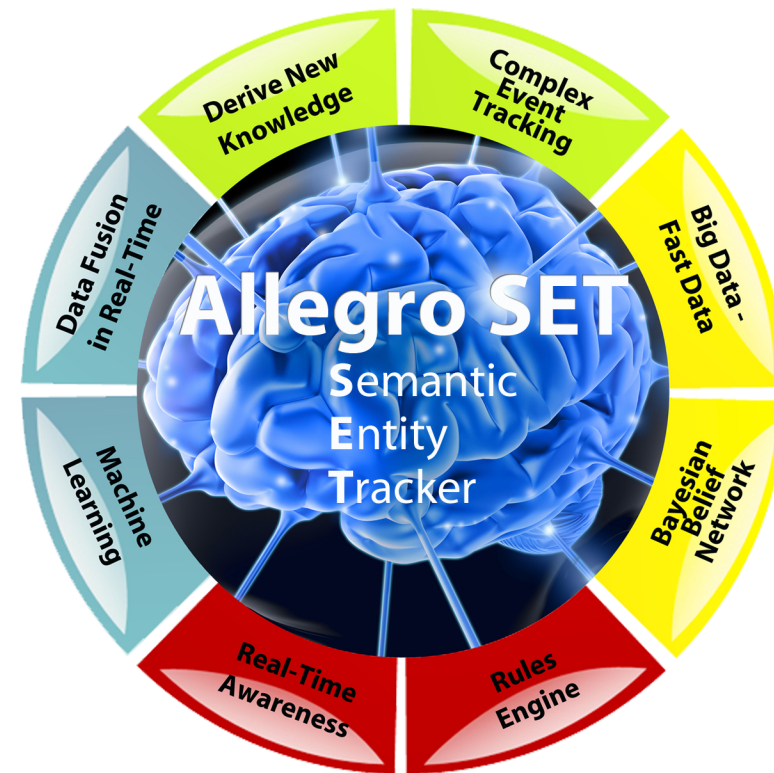
- Your business could anticipate the activity of an "Entity" (think - customer, smart phone component, employee, etc) in your organization?
- Your business could track the most interesting entity interactions in real-time?
- Your team could spend more time exploring entity relationships rather being buried in heterogeneous data problems?

**Allegro SET** is a closed-loop, self-learning system that lets you...

- See what happens, when it happens
- Understand what it means to your business
- Take action and enforce business policy.....  
automatically, intelligently and in business real-time

**The Allegro SET Architecture** brings together several new technologies:

- Complex event processing
- Semantic inference engine
- RDF-based triple store and ontologies
- Bayesian Belief Network
- Entity Extraction
- Modern ETL orchestration
- And more...



## Collection of Events in Real-Time



- Collects published events
- Convert event messages to RDF triples/quads
- Determine relationships of class to properties for this individual (instance)

## Decision Engine:

Transforms events into a knowledge graph about an entity.

- Orchestrates
  - Update triples
  - Read triples
  - Invoke Bayesian Belief Network
  - Invoke Reasoner
    - Inferences
    - Rules
- Determines meaningful concepts
- Correlates multiple raw events
- Aggregates Information
- Enrichment if necessary
- Publish action message(s)

