# Fatafat Engine Processing Flow

In order to provide dependency driven processing, one of the design requirements for the Fatafat Engine is to allow models to use data from multiple models, and to use data from one processed calculation along with the source data, in another calculation.

For the sample car sales data model, we receive the following *datasets* as incoming messages:

- Car Sales Data
- Repair Records
- Resale Information

1. That data is transformed into new *messages* that reveal in their xml, the kind of data they contain, to other objects.
2. *Models* then consume the input, run their specific rule on that data, and send out the result as either a *container* or a *message*.
3. A second rule *model* can then consume the original but transformed *message* (example: a specific beneficiary's inpatient data) and the result of the earlier *model*.

Model Working Set – Engine process
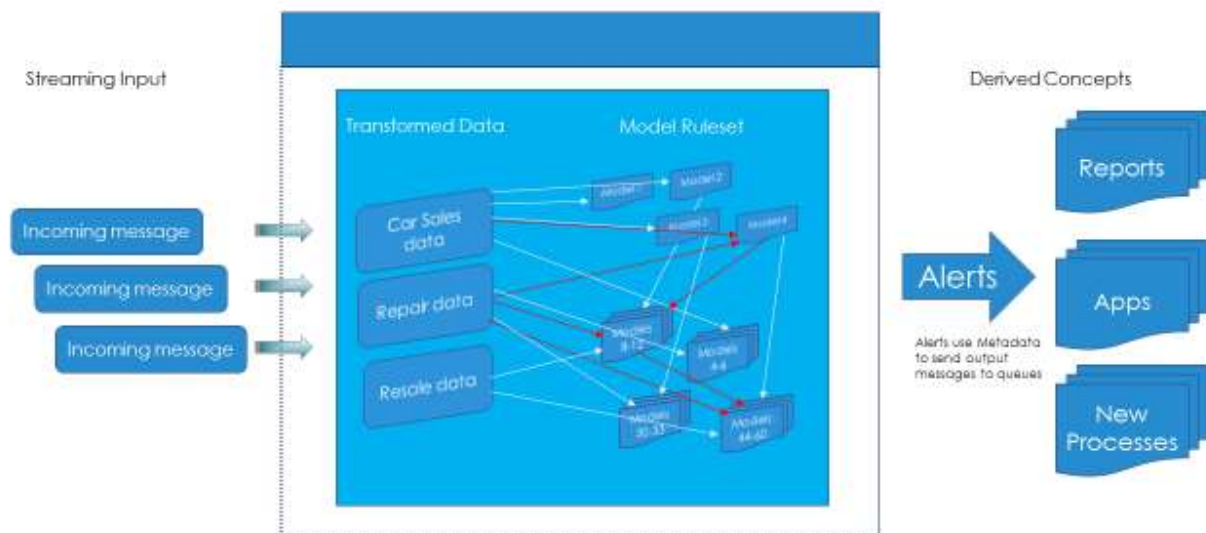
The simplified view above shows the consumption of data in multiple models, following the red arrows.

1. All incoming data is transformed into engine-readable xml messages, containers or other elements.
2. Car Sale Data, Repair records, and Resale data are consumed by Model 4.
3. Model 9 (for instance) consumes the result of Model 4, as well as the original Inpatient data.
4. Model 48 (for instance) consumes the result of Model 9, as well as the original inpatient data.
5. Model 48 could also consume the result of Model 9, Model 4 as well as the original inpatient data.