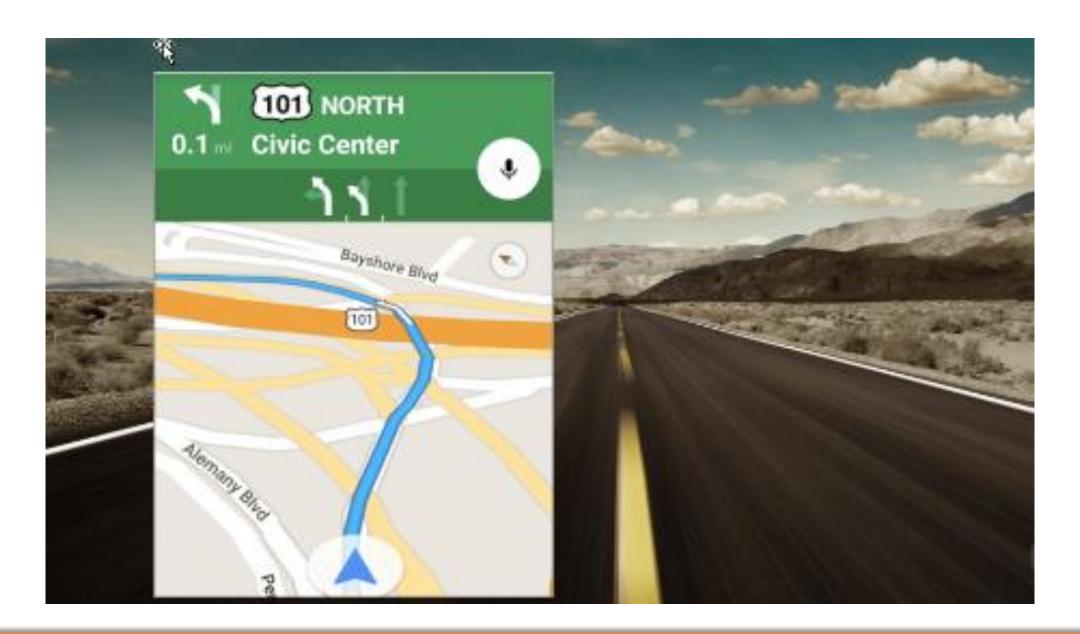
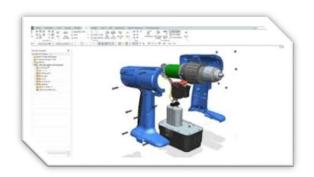


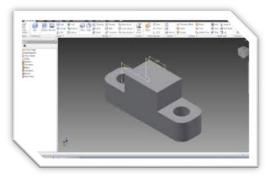
### Applying the Knowledge Aware Technique within **CAD Applications** aurs

September 25, 2019

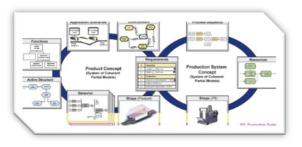


#### **Product Models**





**Design Models** 



## Model Based Engineering



System Models

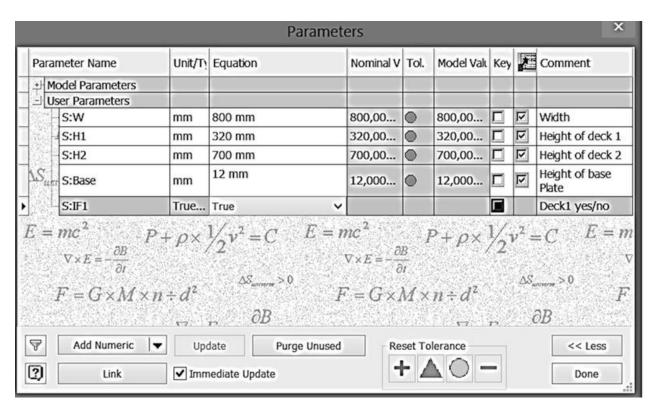
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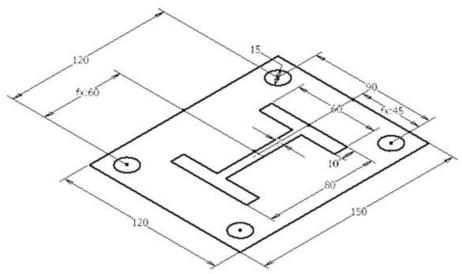
**Validation Models** 

Manufacturing Models

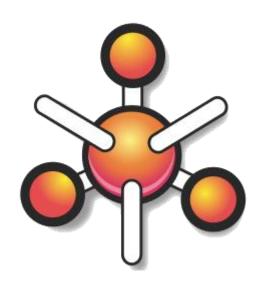
**Operational Models** 

#### Knowledge Based Engineering (KBE) vs Knowledge Aware





#### **Fundamental Enabling Technologies**



Knowledge Packet



Rule Processing Engine

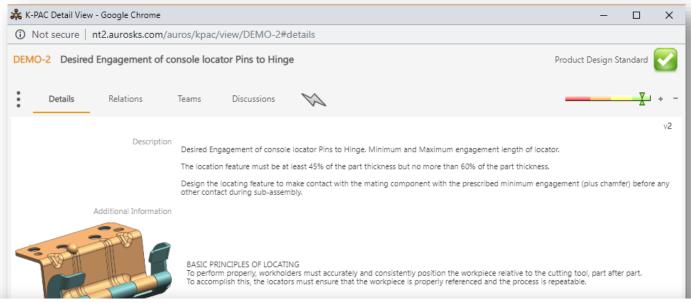


Assessment Control



#### **Auros: Core Technology**

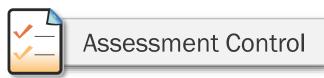


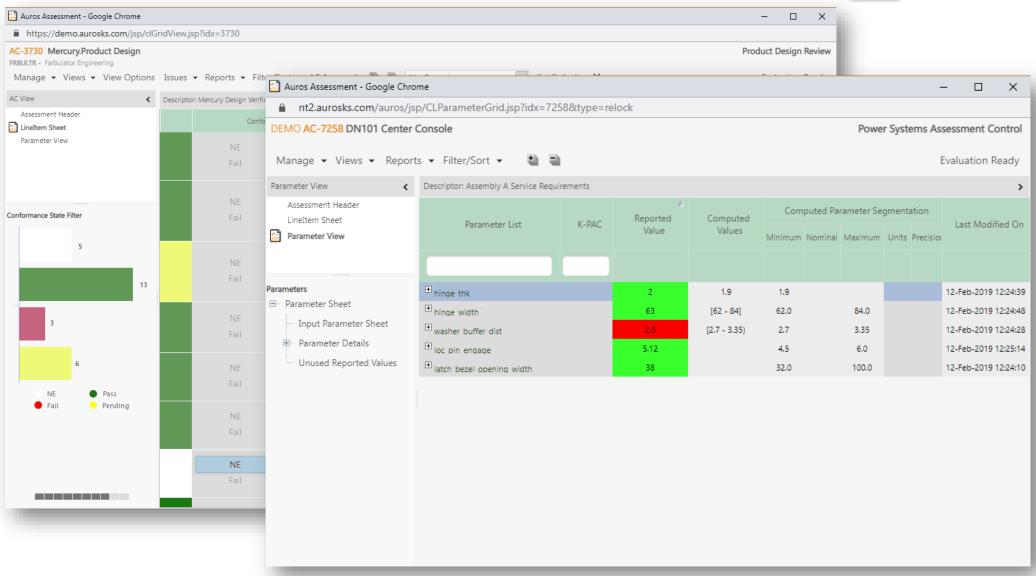






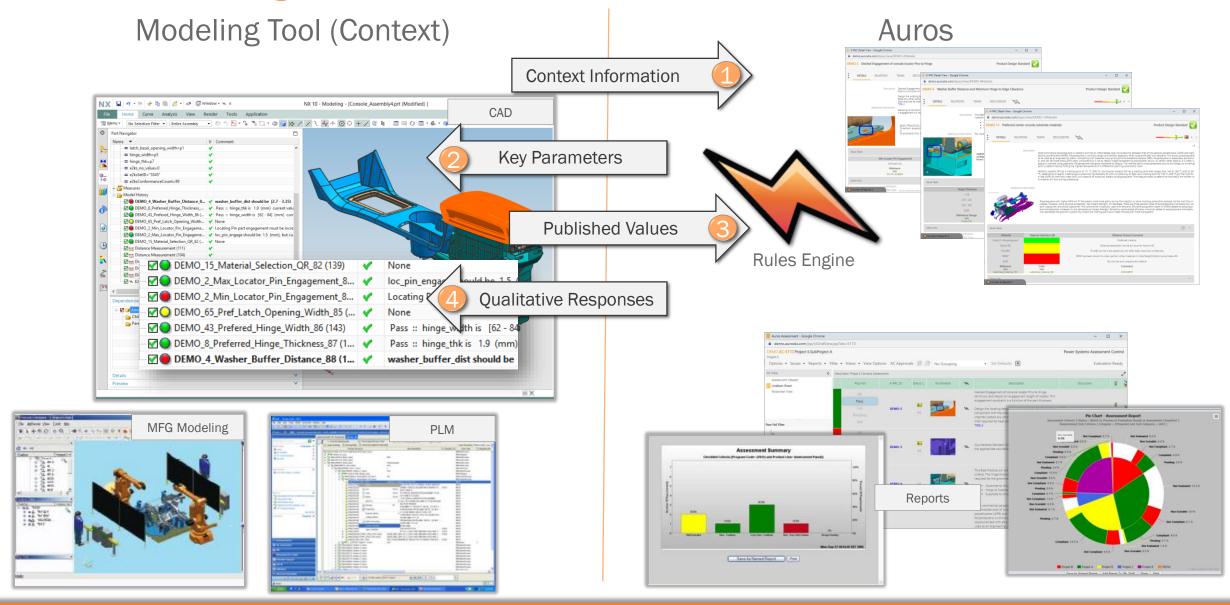
### **Auros: Core Technology**



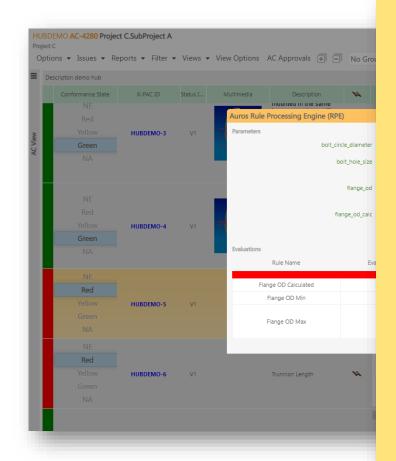




#### **Auros Knowledge Driven Model Based Process**



#### **Parameter Report**





#### **Auros CAD Connector Strategies**

Non-Parametric Model Validation

Free Form CAD

**Template - Smart Part CAD** 

Automated Drawing / Model Validation with Proxy Parameters

- Dynamic delivery of key parameters and rules
- Real-time conformance reporting
- Imbedded knowledge references
- Closed loop learning
- Auto connect to Existing Parameter and Relations
- Introduce new / modified rules on the fly
- Real-time Web Conformance Reporting -Feedback

























#### **Non-Parametric Model Validation**



### **Template - Smart Part CAD**



#### **Automated Drawing / Model Validation with Proxy Parameters**



# Knowledge Based Engineering (KBE) not the same as Knowledge Aware

## Applicability of Knowledge Aware across Workflows

- Non-Parametric Model Validations
- Freeform CAD (Not Shown)
- SMART Templates
- Automated Validations with Proxy Parameters

# Benefits of Applying Knowledge Aware within CAD Applications

- Certainty on Knowledge Reuse
- Continuous Product Validation
- Closed Loop Enterprise Learning

#### **Live Demonstrations Available**











**Knowledge Best Shared**