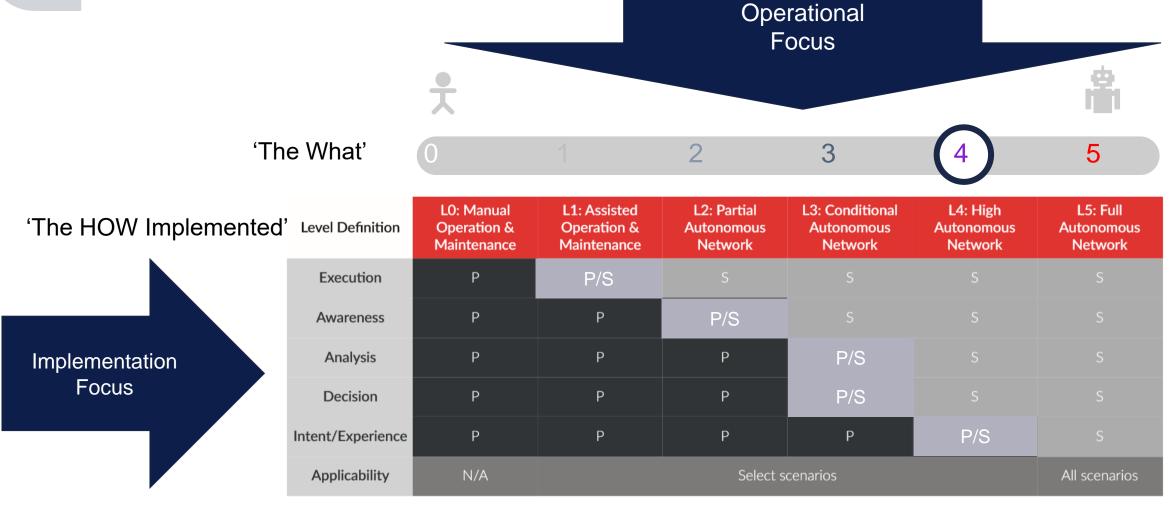


#### The three challenges

- 1. Introduction of new Intelligent application to AN
- 2. Transition from current automation/ autonomous level to a higher level
- 3. Operational maintenance of a current Automation Level

#### The 6 Levels of Autonomous Networks

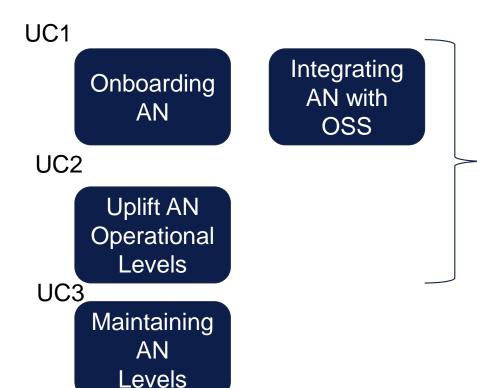
'The HOW supervised'



P: Personnel, S: Systems

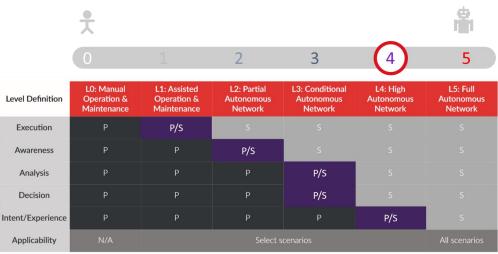
#### **Closed Loop Mechanism of Autonomous Network** 3 **Level Definition Intent Owner** Intent owner inner **Experience** Intent loop Execution SLA compliance **Expectations / Requirements** Awareness **Intent Management Analysis Control Loop Management** Decision **Control Decision-Executio Awareness Analysis** Loop making n Intent/Experience (AADE) **Applicability** P: Personnel, S: Systems **Executio Decision-**OODA **Observe Orientate** making n Alternate Implementation 'Models' **Executio** MAPE **Monitor Analysis** Plan n

### **Operational use case challenges**



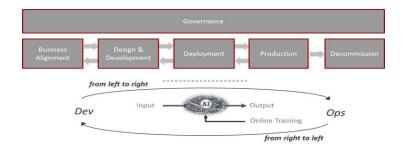
Next Slide

- Registering AN services
- ⇒Defining operational integration interaction patterns( & interfaces)
- → Defining Intents
- Operational processes for intent management
- Common operational principals
  - Some across all levels:
  - Intent based ownership, supervision analytics
  - · Some level intent specific
- Deltas for change from one level to another



## **UC** 3 Insights from AI operations

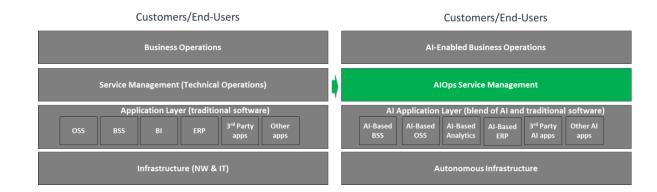
#### IG1190



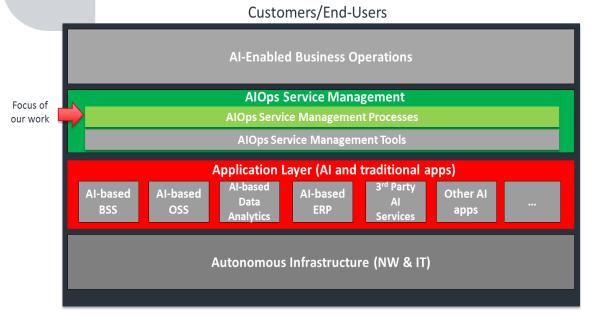
General Software Lifecycle



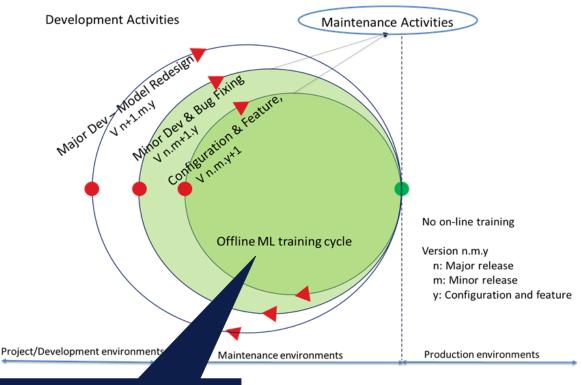
Scope of AI Ops



# UC 3 Insights from Al operations



#### IG1190 App Maintenance Three maintenance lifecycles



Unique to AI and ?AN

## Maintenance & Change/Version Management (example)

