



Network Management through Splunk Mobile and Augmented Reality

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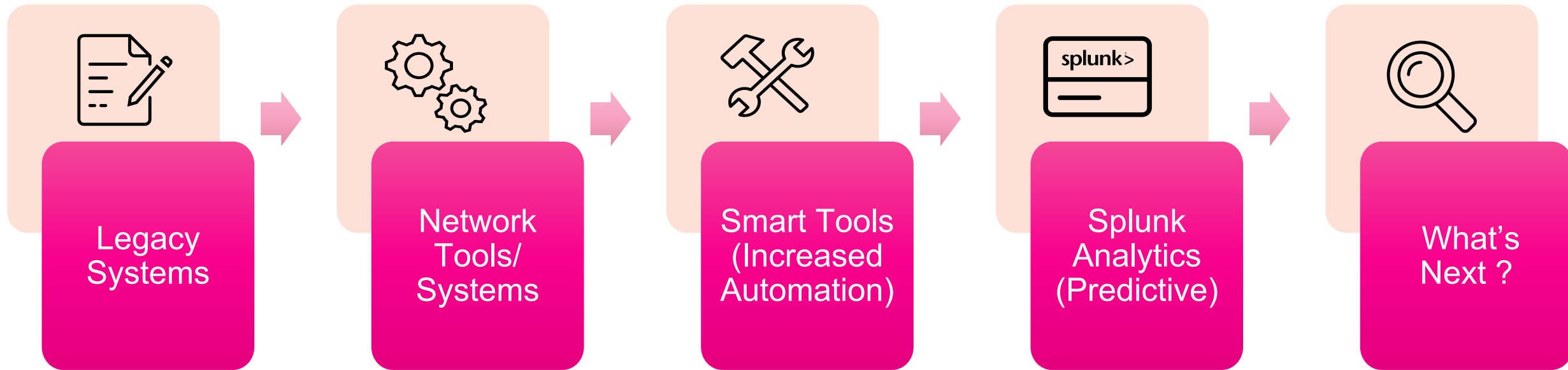
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Evolving Network Management

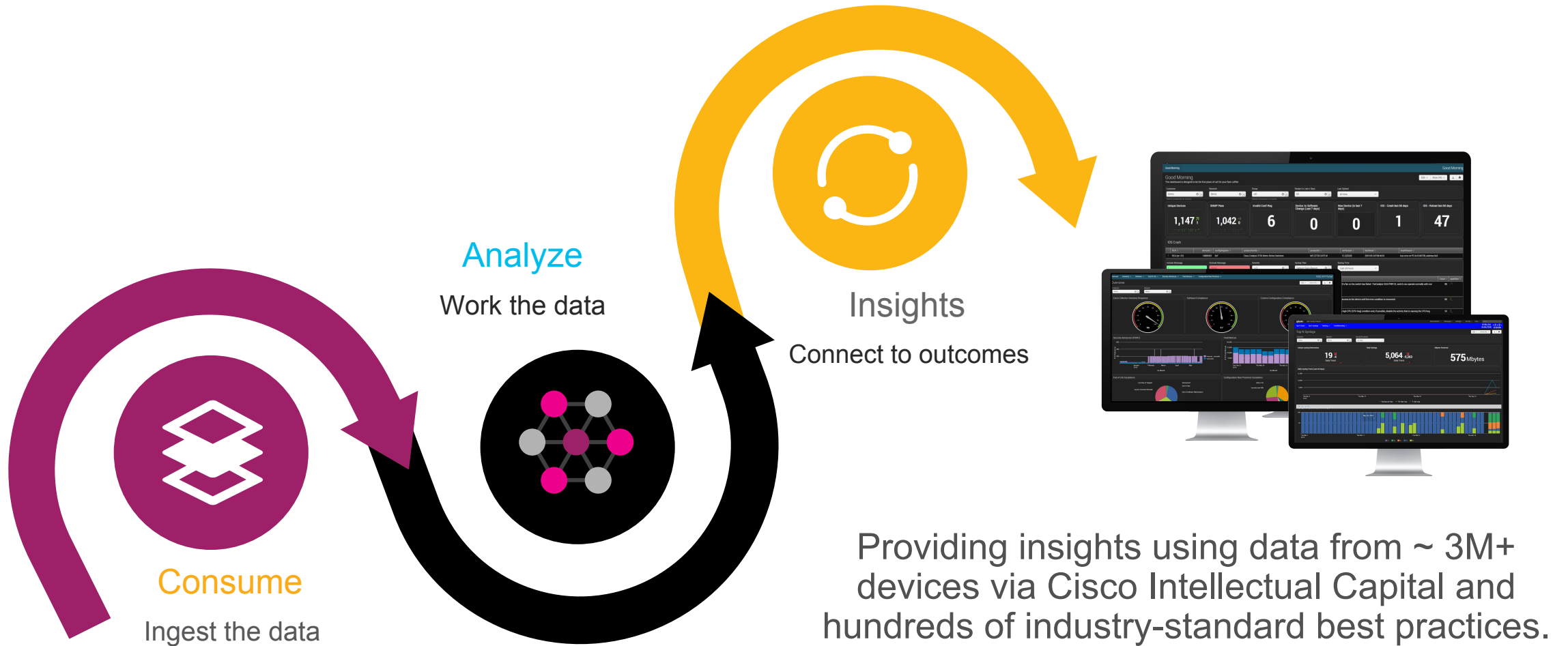
Evolving the customer experience



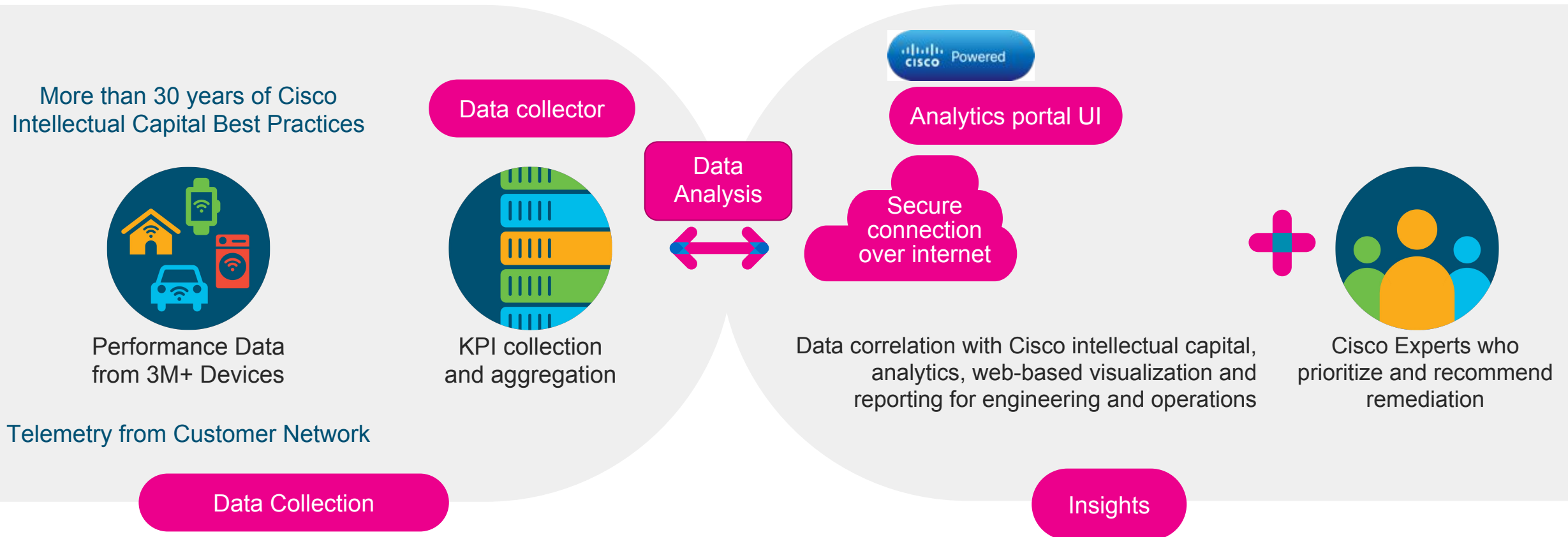
The Emergence



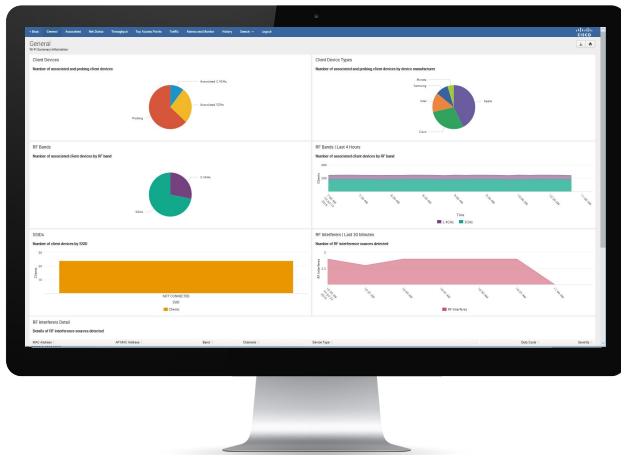
Overview of Network Analytics & Insights



Insights Architecture



Consulting driven by Network Analytics



Analytics and insights portal

- Correlate and analyze
- Visualize network KPIs, trend analysis, diagnostic information and automated prioritized Cisco recommendations



Cisco SME

Consultative support from
Cisco Services



Actionable insights

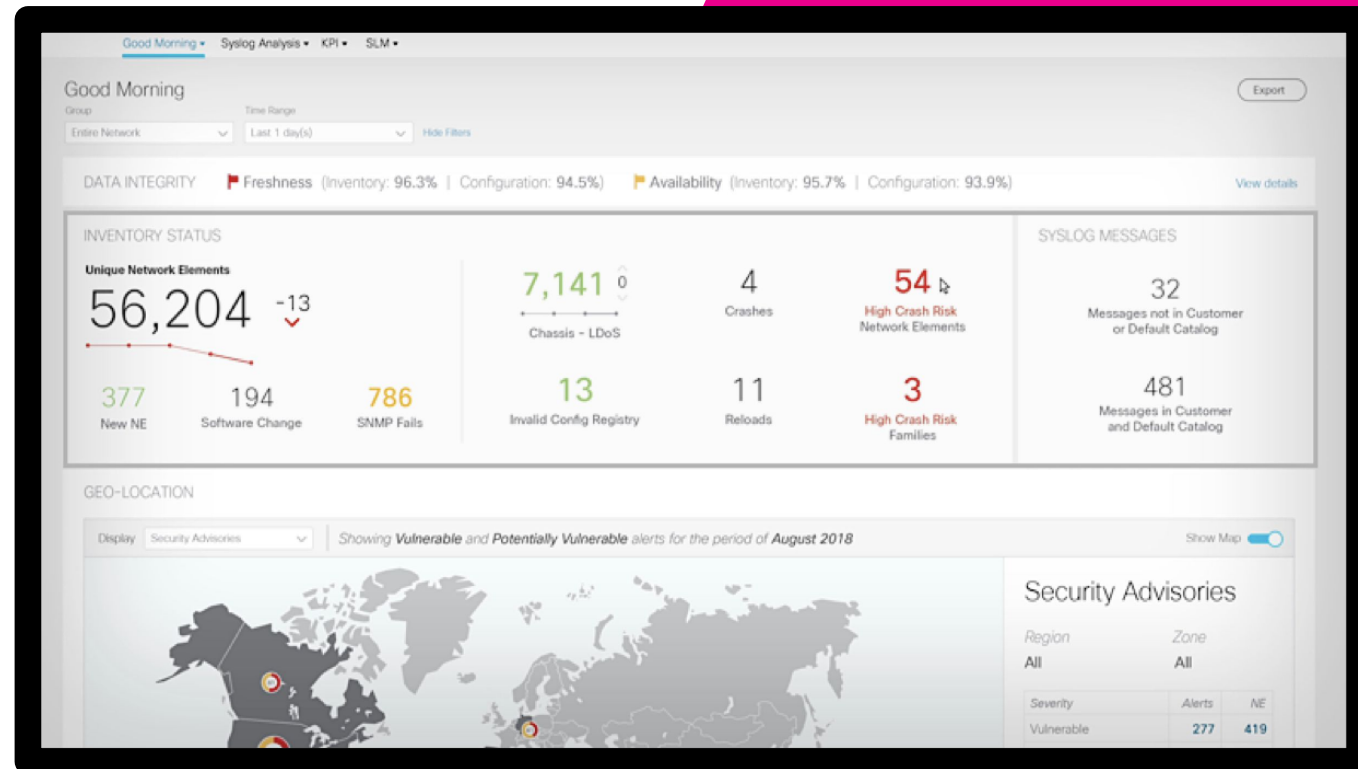
Increase operational efficiency
and reduce cost

Operational Insights

Access to network KPIs and analytics that drive informed decisions

Customer value:

- Operational Efficiency & Reduce Costs
- Turn Insights into Actions
- Access to Cisco Global IC

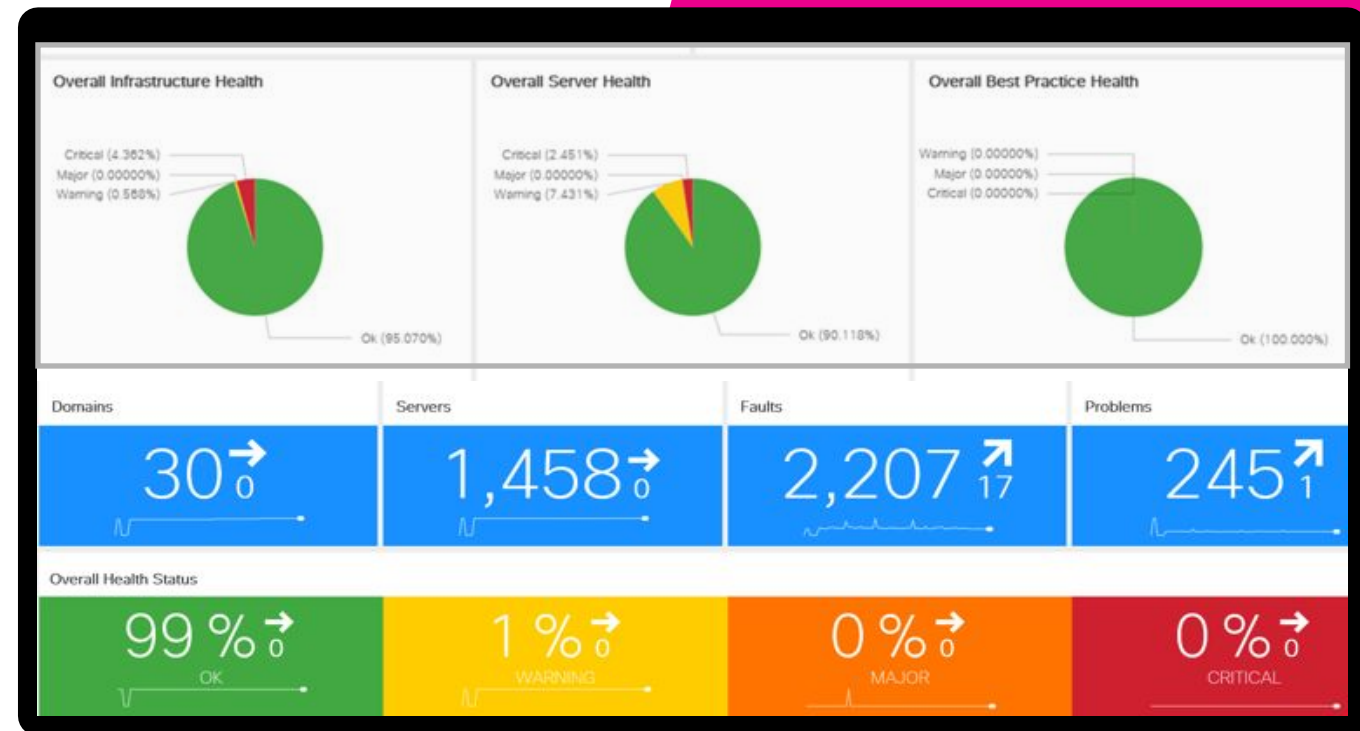


Platform Stability Factors

Provides recommendations for increasing network device stability

Customer value

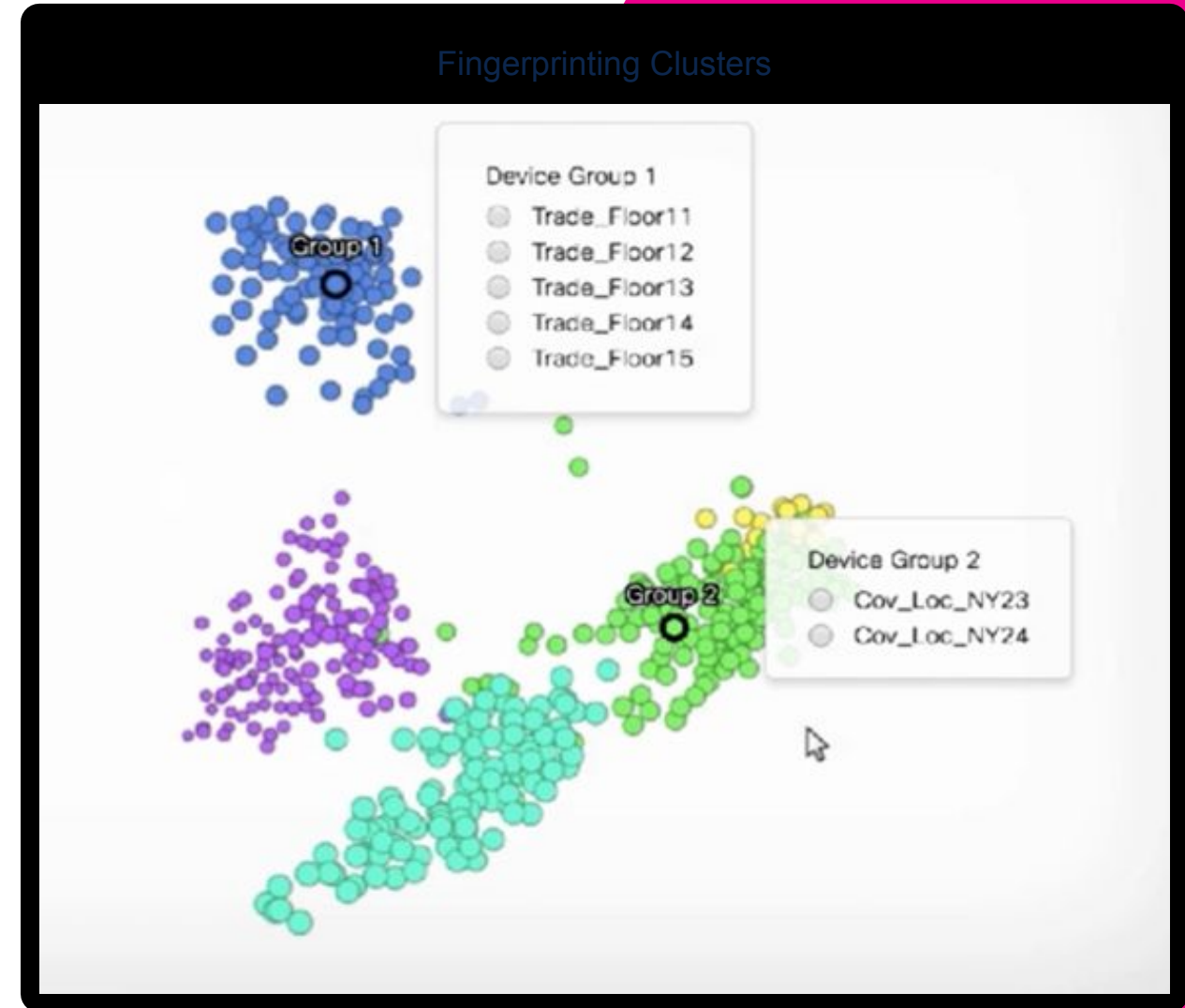
- Reduce IT Staff Problem Analysis time by up to 80%
- Significantly improve information precision
- Increase Ops and Eng effectiveness



Machine Learning driven predictive algorithms

Customer value

- Identify probable risk to business
- Determine plan to mitigate risk
- Reduce impact and outages



The Next Big Thing : Splunk AR ?

.conf19
splunk>



What is Augmented Reality ?



Superimposing a computer-generated image on a user's view of the real world, thus providing a composite view.



Combines real and virtual objects in a real environment



Is interactive in real-time



Aligns real and virtual objects with each other

What can AR do for your network ?

What if we can have

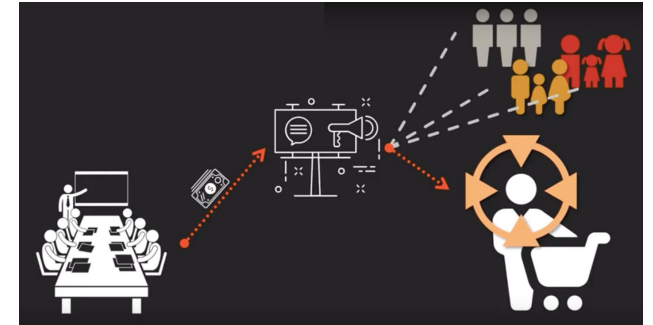
- Real time hands on lab management
- Visualized Immersive Experience for device management and monitoring

Outcomes

- Visualizations via Splunk AR
- Revolutionizing the way we see networks
- Immersive customer experience
- Efficient Management

Solution to get it

- Splunk AR and Dashboards for the visualization.



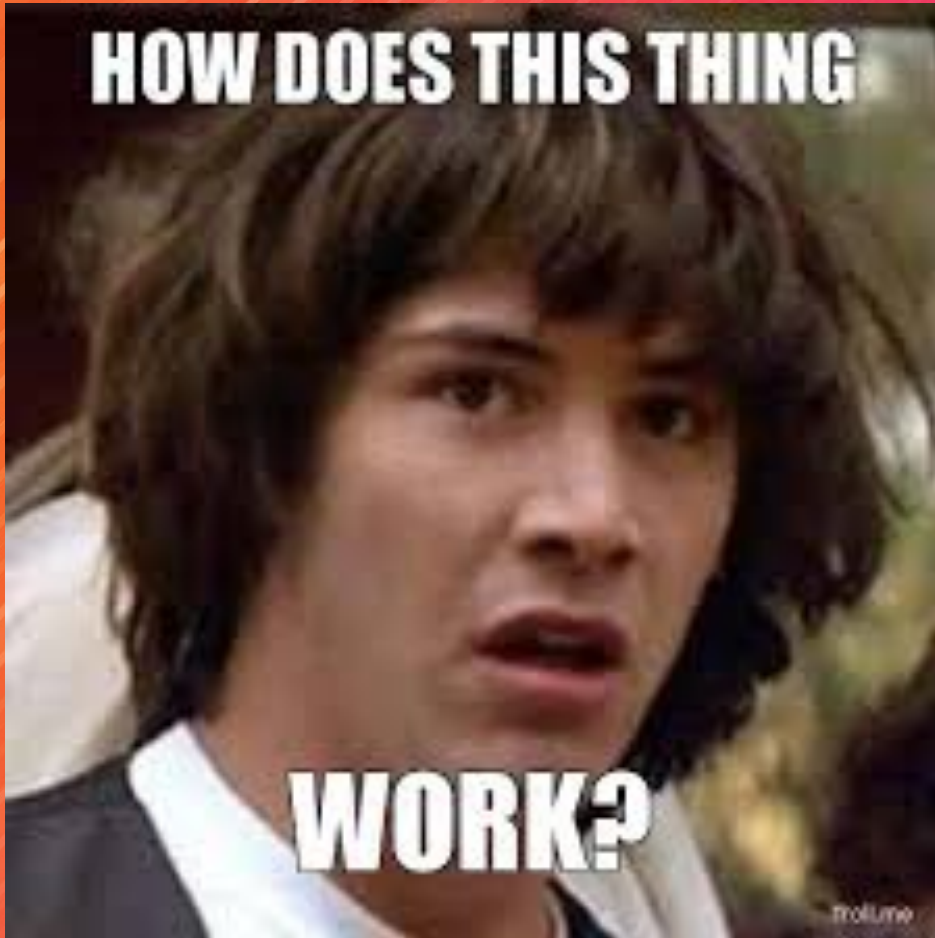
AR in Network Management



Visualization of critical device metrics via QR code/ NFC tag within a geolocated fence

- CPU usage
- RAM usage
- Temperature Thresholds
- Memory Statistics





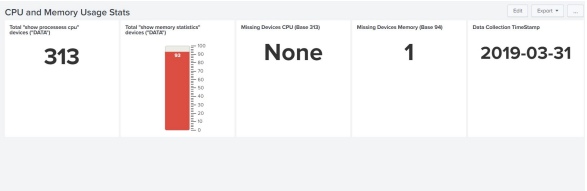
PILOT WORKFLOW

Memory logs

```
show watchdog memory-state location

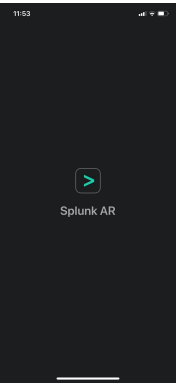
Sun Sep 1 23:14:16.592 UTC
--- node0_RP0_CPU0 ---
Memory information:
  Physical Memory: 6144 MB
  Free Memory: 2259.226 MB
  Memory State: Normal
--- node0_RP1_CPU0 ---
Memory information:
  Physical Memory: 6144 MB
  Free Memory: 2960.554 MB
  Memory State: Normal
--- node0_6_CPU0 ---
Memory information:
  Physical Memory: 4096 MB
  Free Memory: 1662.753 MB
  Memory State: Normal
--- node0_7_CPU0 ---
Memory information:
  Physical Memory: 4096 MB
  Free Memory: 1662.7 MB
  Memory State: Normal
--- node0_SM1_SP ---
Memory information:
  Physical Memory: 512 MB
  Free Memory: 387.820 MB
  Memory State: Normal
--- node0_SM0_SP ---
Memory information:
  Physical Memory: 512 MB
  Free Memory: 387.800 MB
  Memory State: Normal
--- node0_SM2_SP ---
```

CPU and Memory Usage Stats Dashboard



Splunk Cloud Gateway

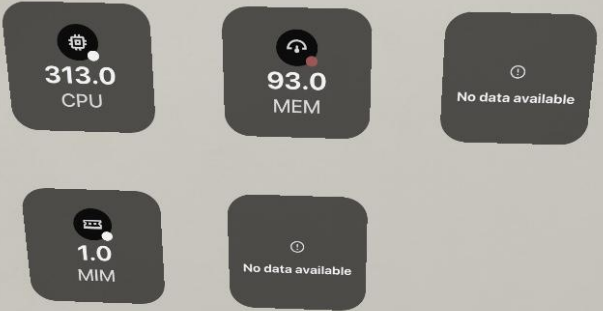
Splunk AR App



CPU and Memory Usage Stats

Scan QR Code

CPU and Memory Usage Stats



See AR overlays



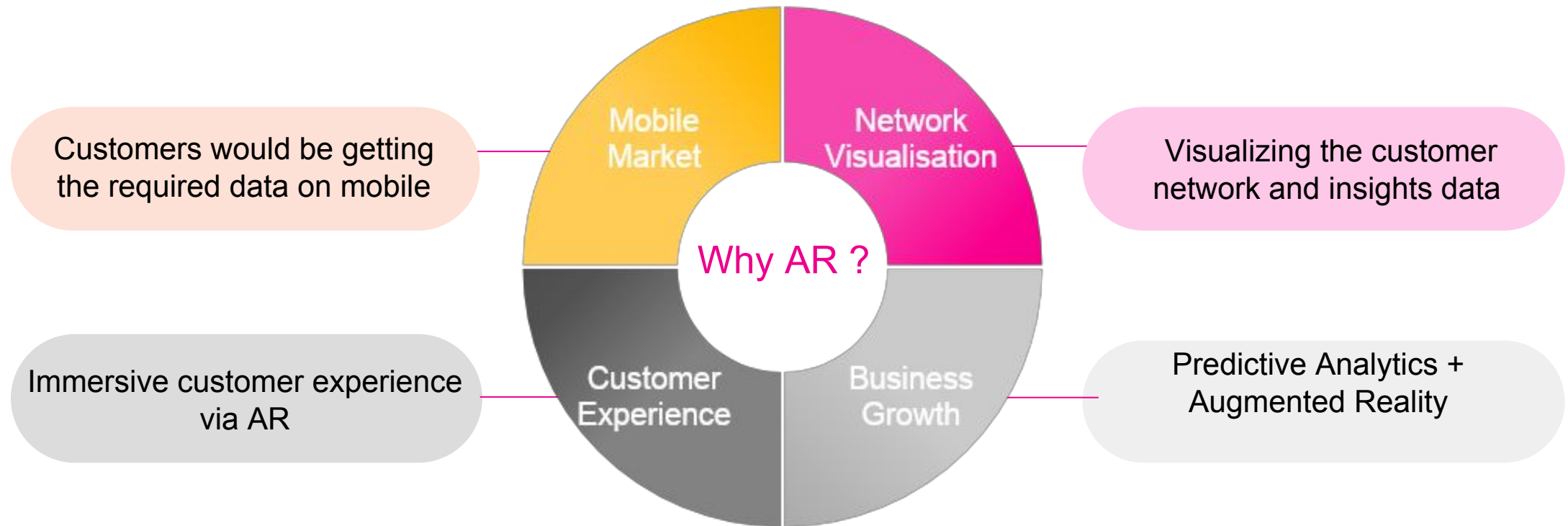
Demo

Key Takeaways



- ✓ Immersive customer experience using enhanced visualizations via Augmented Reality.
- ✓ Readily available critical data metrics.
- ✓ Mobile based foresights making informed decisions faster.

OPPORTUNITIES AHEAD



To ensure that the customer have instant access to the critical data that is most relevant to them. Thus enriching the experience with the power of Splunk AR solution.

Q&A

Sulabh Agarwal | Network Consulting Engineer





**Thank
You!**