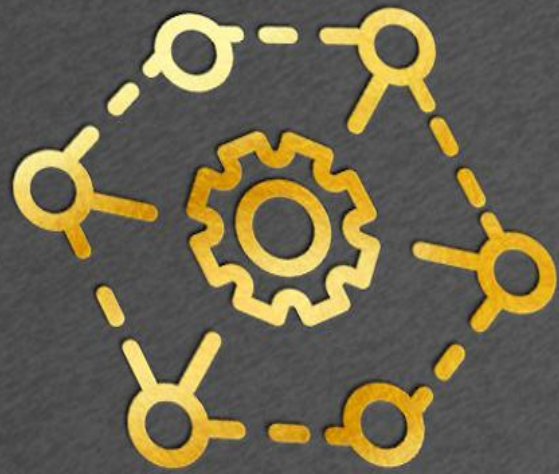


# CIS PRESENTATION



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# CIS

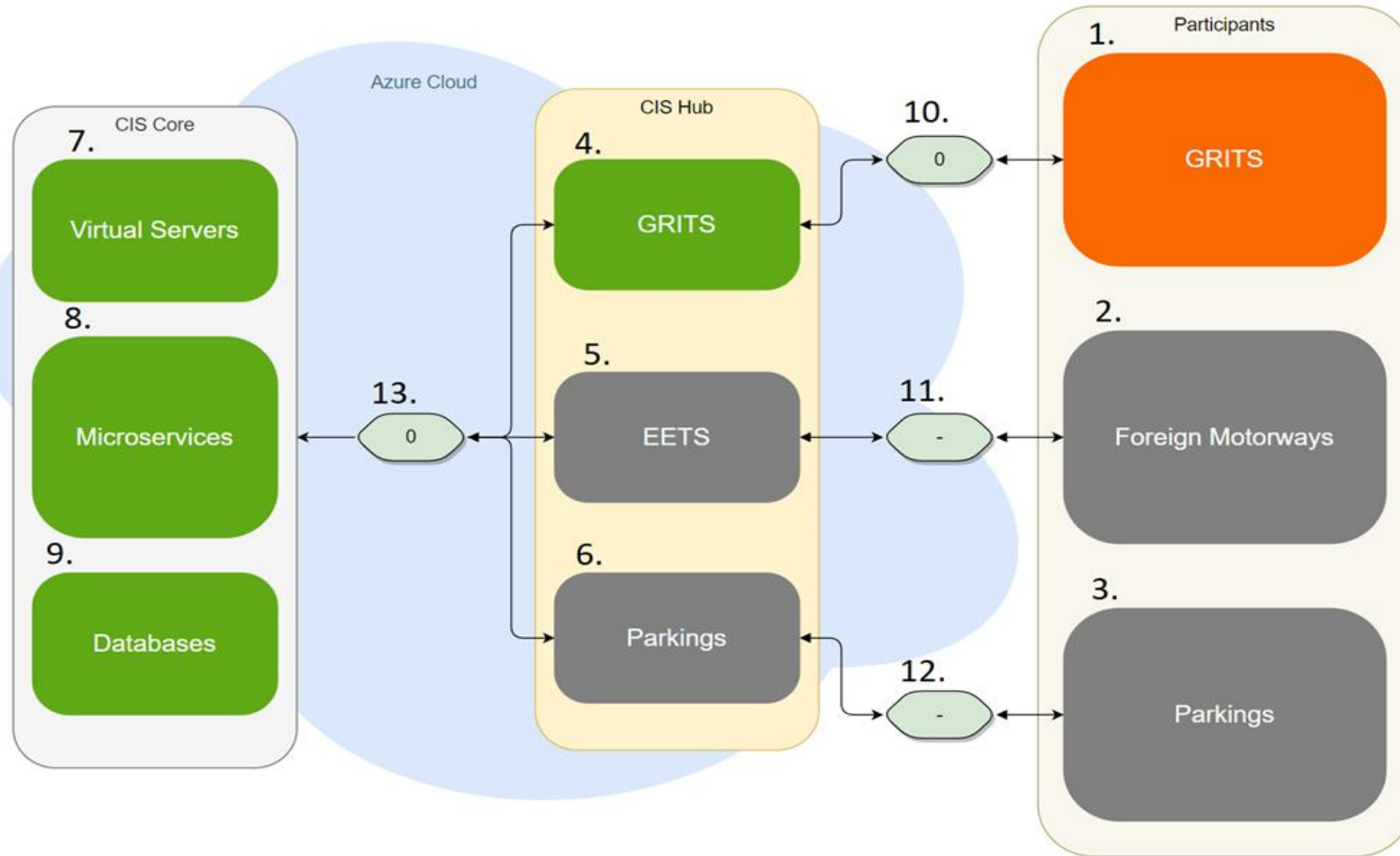
CENTRAL INTEROPERABILITY SYSTEM

## Login

**Sign in**



# CIS SYSTEM OVERVIEW



1. CIS participant service GRITS (Group Heartbeats of Related)
2. CIS participant service foreign Motorways.
3. CIS participant service parkings
4. CIS hub service GRITS (Group Heartbeats of Related)
5. CIS hub service EETS (N/A)
6. CIS hub service parkings (N/A)
7. CIS core service virtual Servers (Group Heartbeats of Related)
8. CIS core service microServices (Group Heartbeats of Related)
9. CIS core service databases (Group Heartbeats of Related)

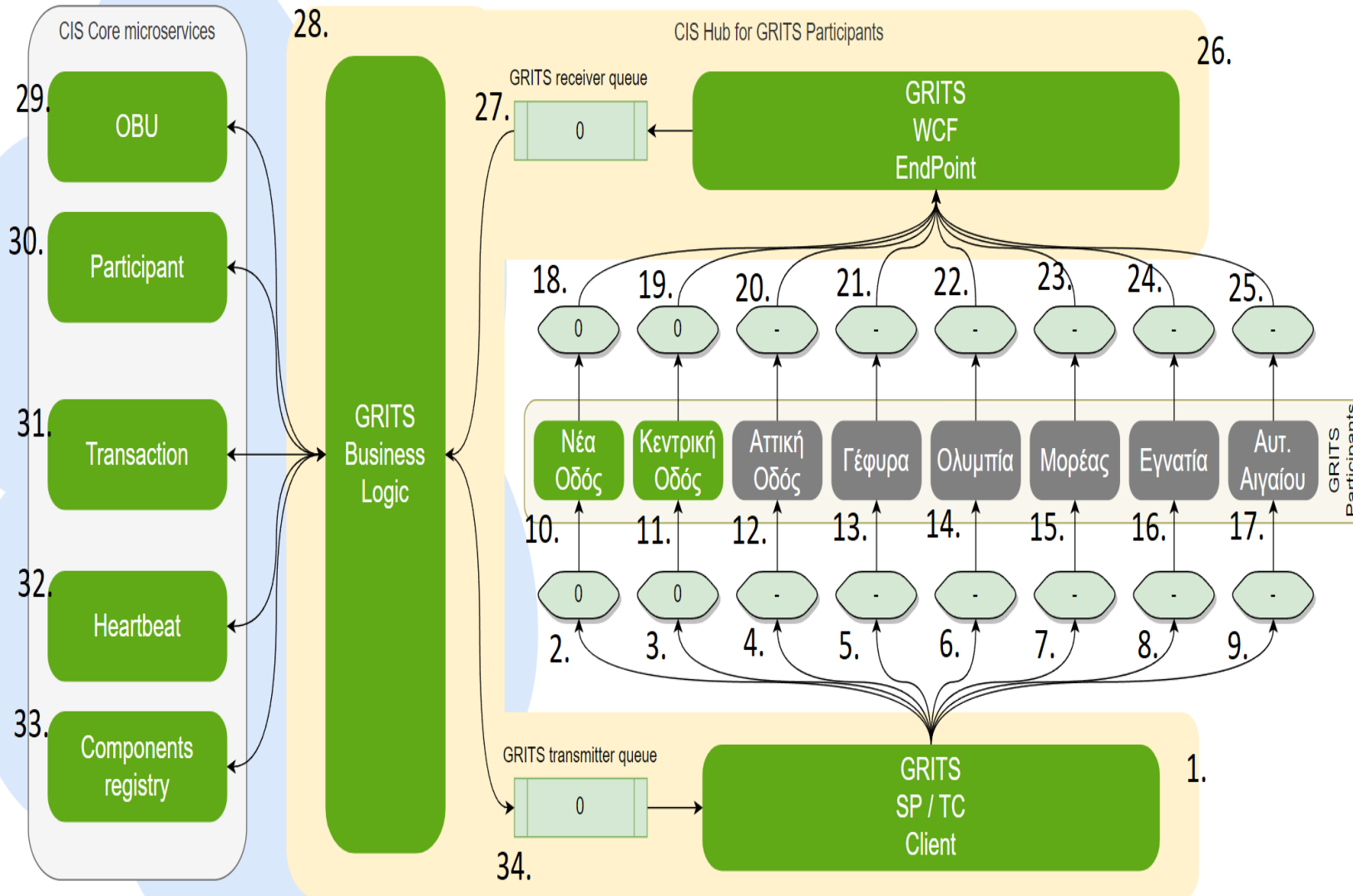
The HEARTBEAT SERVICE controls subsystems status through 54 controls

**GREEN** if subsystems are all functional

**ORANGE** if a subsystem malfunctions the last 2 minutes

**RED** if after 2 minutes the subsystem still doesn't respond to the service.

# CIS GRITS SUBSYSTEM ZOOM IN



1. CIS hub endpoint GRITS client  
(Heartbeat microservice)

2-9 CIS hub queue outgoing GRITS

10-17 CIS participant service GRITS

18-25 CIS hub queue incoming GRITS

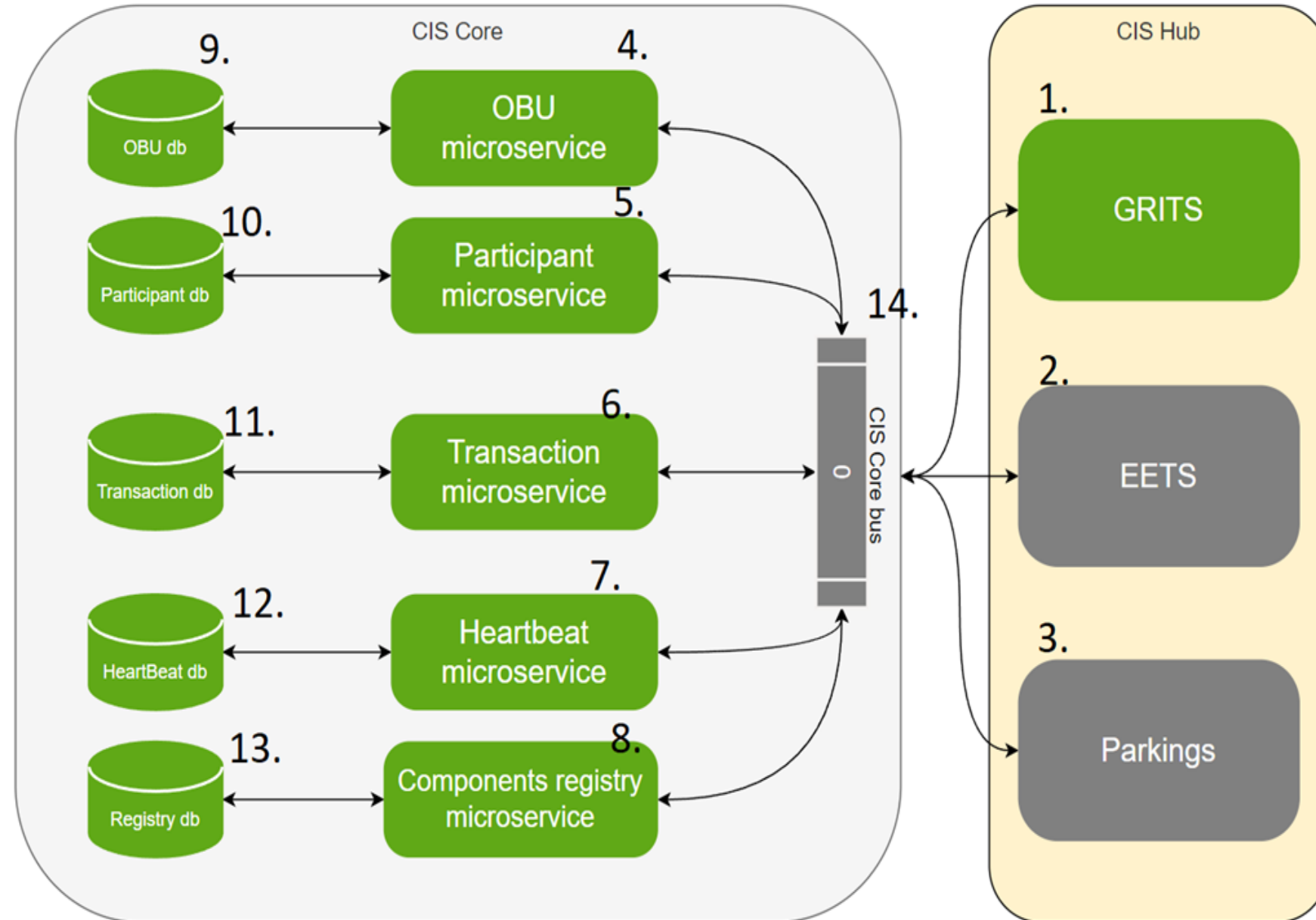
26. CIS hub endpoint GRITS WCF

27. CIS hub queue GRITS receiver

28. CIS hub microservice GRITS Business Logic

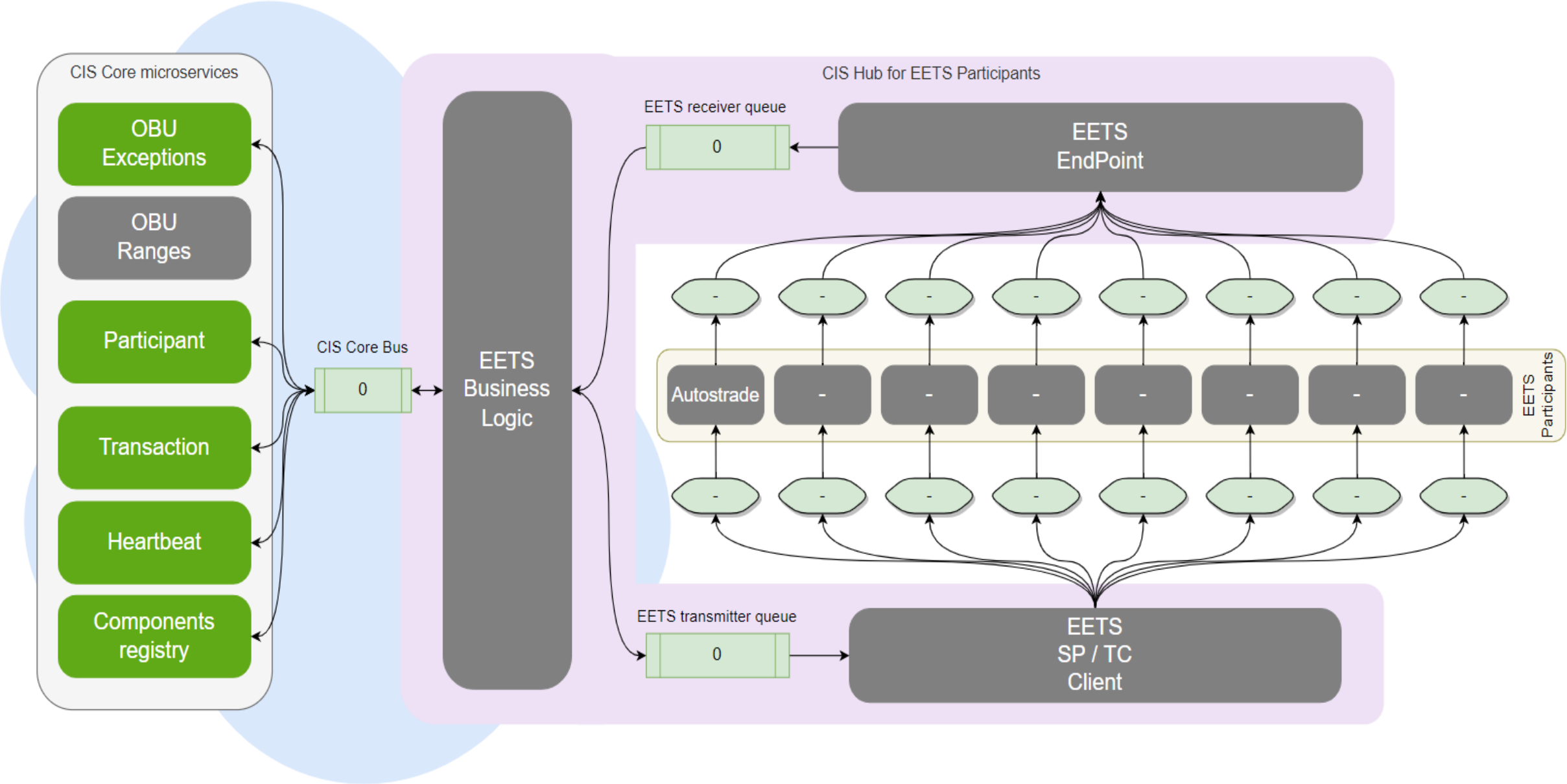
29-33 CORE MICROSERVICES

# CIS CORE SUBSYSTEM ZOOM IN

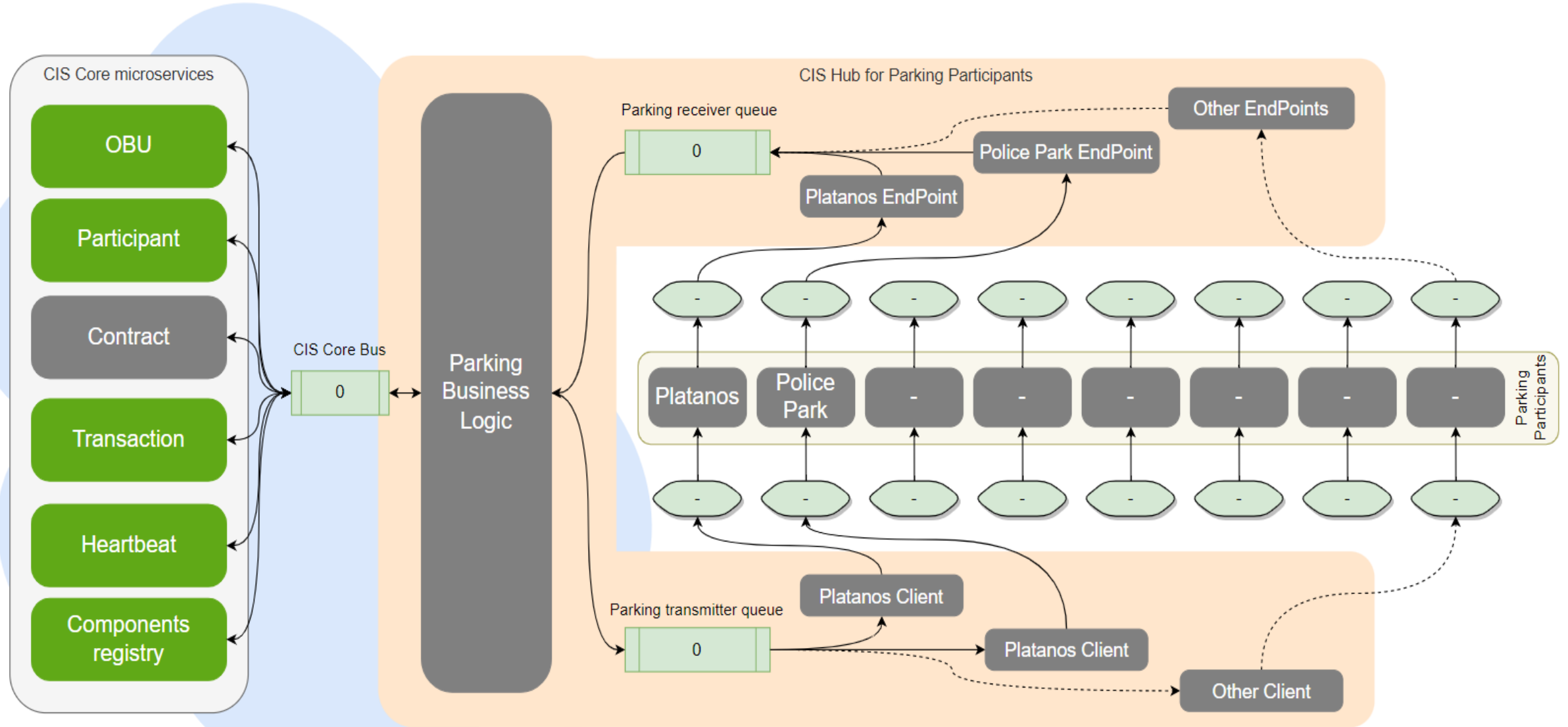


1. CIS hub service GRITS  
(Group Heartbeats of Related)
2. CIS hub service EETS
3. CIS hub service PARKING
4. CIS core microservice OBU
5. CIS core microservice PART
6. CIS core microservice TRANS
7. CIS core microservice HEART
8. CIS core microservice REGIS
9. Data core database OBU
10. Data core database PARK
11. Data core database TRANS
12. Data core database HEART
13. Data core database REGIS
14. CIS core bus core (Azure Data Bus Queue Length)

# CIS FOREIGN MOTORWAYS (EETS COMPLIANT) SUBSYSTEM ZOOM IN



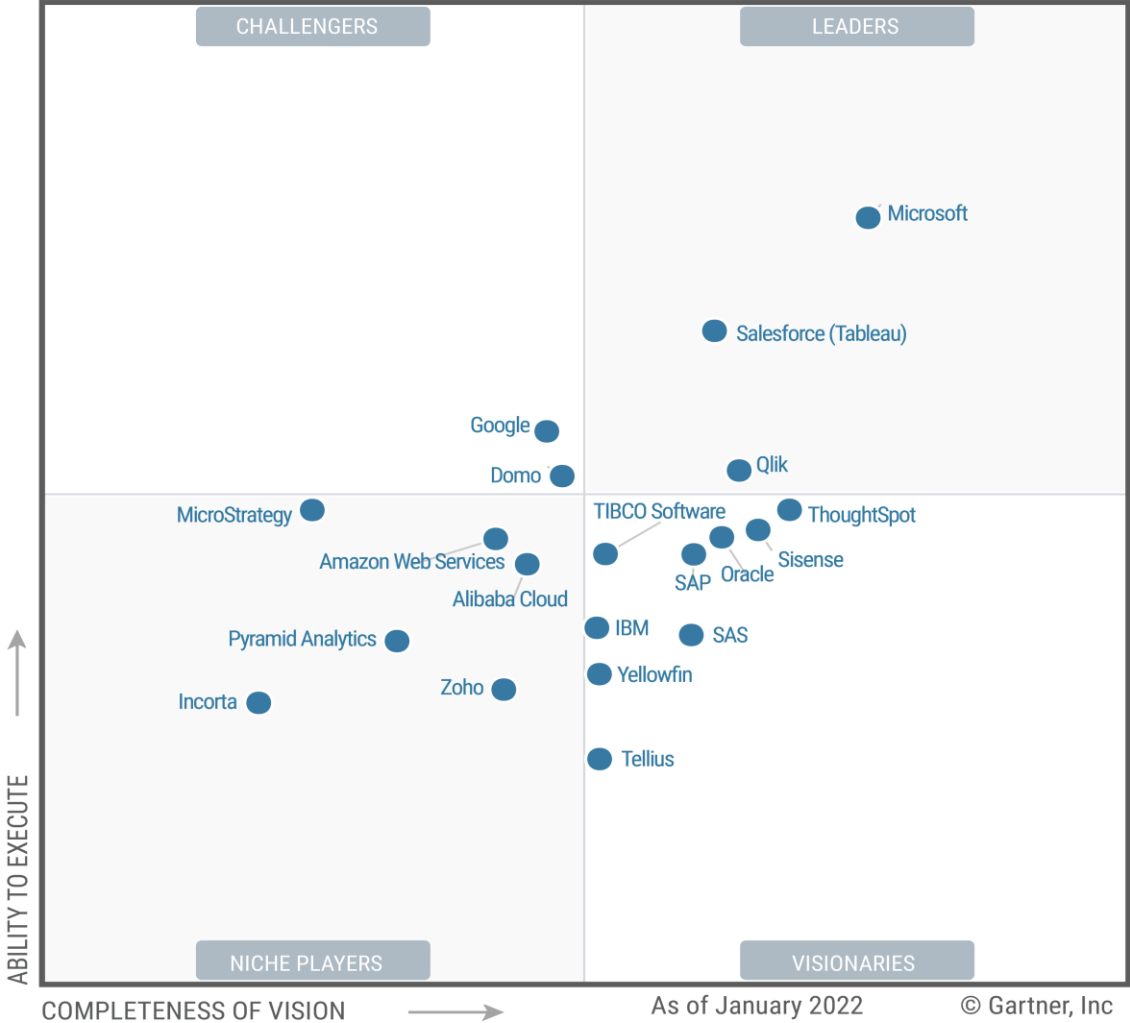
# CIS PARKING SUBSYSTEM ZOOM IN



# POWER BUSINESS INTELLIGENCE BY MICROSOFT

## 2022 Gartner® Magic Quadrant™ for Analytics and Business Intelligence Platforms

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms



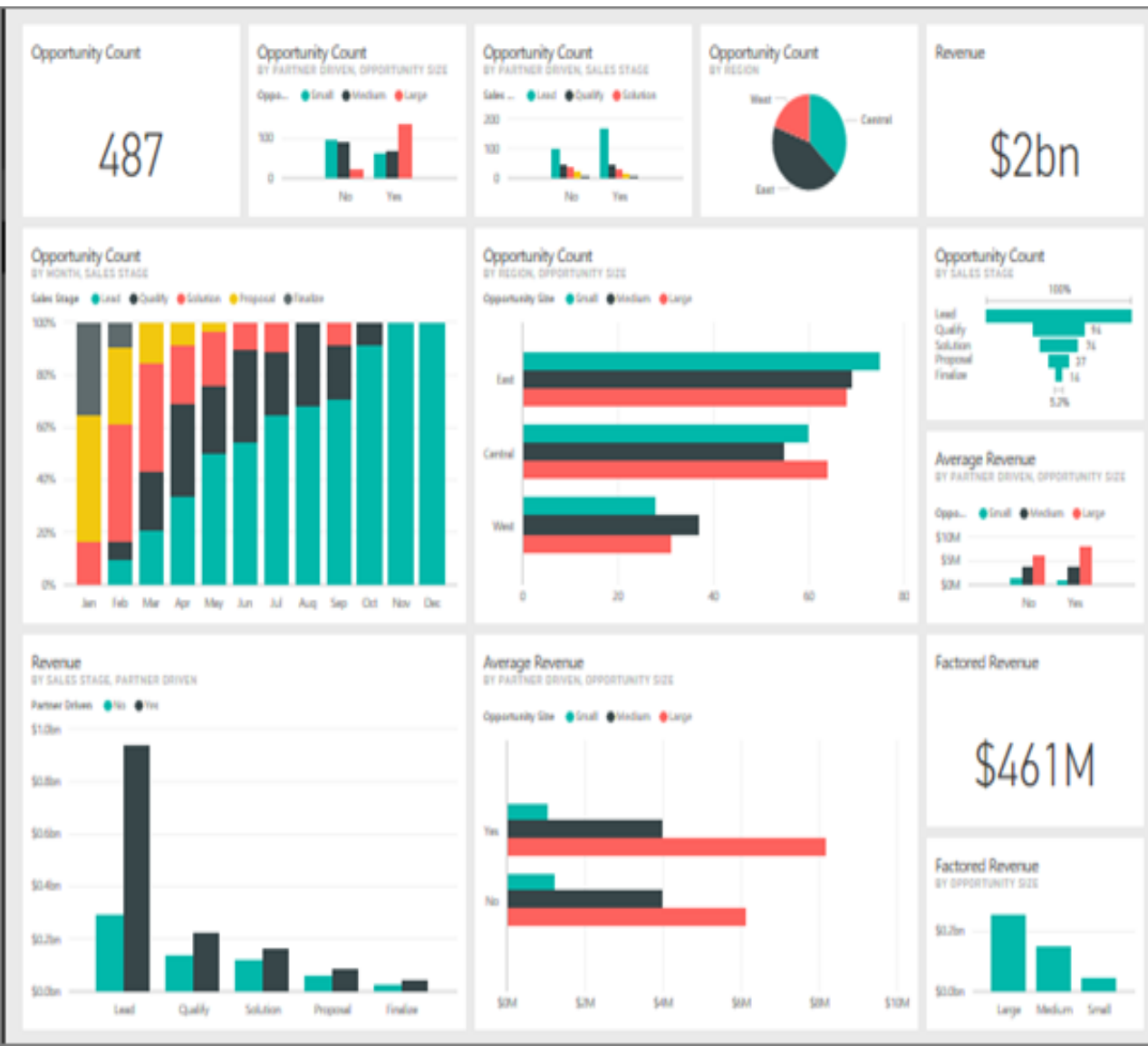
The ABI, data science and machine learning (DSML), and cloud data and analytics (D&A) markets continue to converge, often in the form of intelligent composable applications for customers.

Once again, Gartner has recognized Microsoft as a Magic Quadrant Leader in analytics and business intelligence platforms. For the fourth year running, Microsoft is again positioned furthest in completeness of vision and highest in ability to execute.

Microsoft has massive market reach and momentum through Office 365 and a comprehensive, visionary product roadmap. Microsoft Power BI offers data preparation, visual-based data discovery, interactive dashboards and augmented analytics.



# SAMPLES OF POWER BI DASHBOARDS





# AND NOW LIVE DATA DRIVEN CIS



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