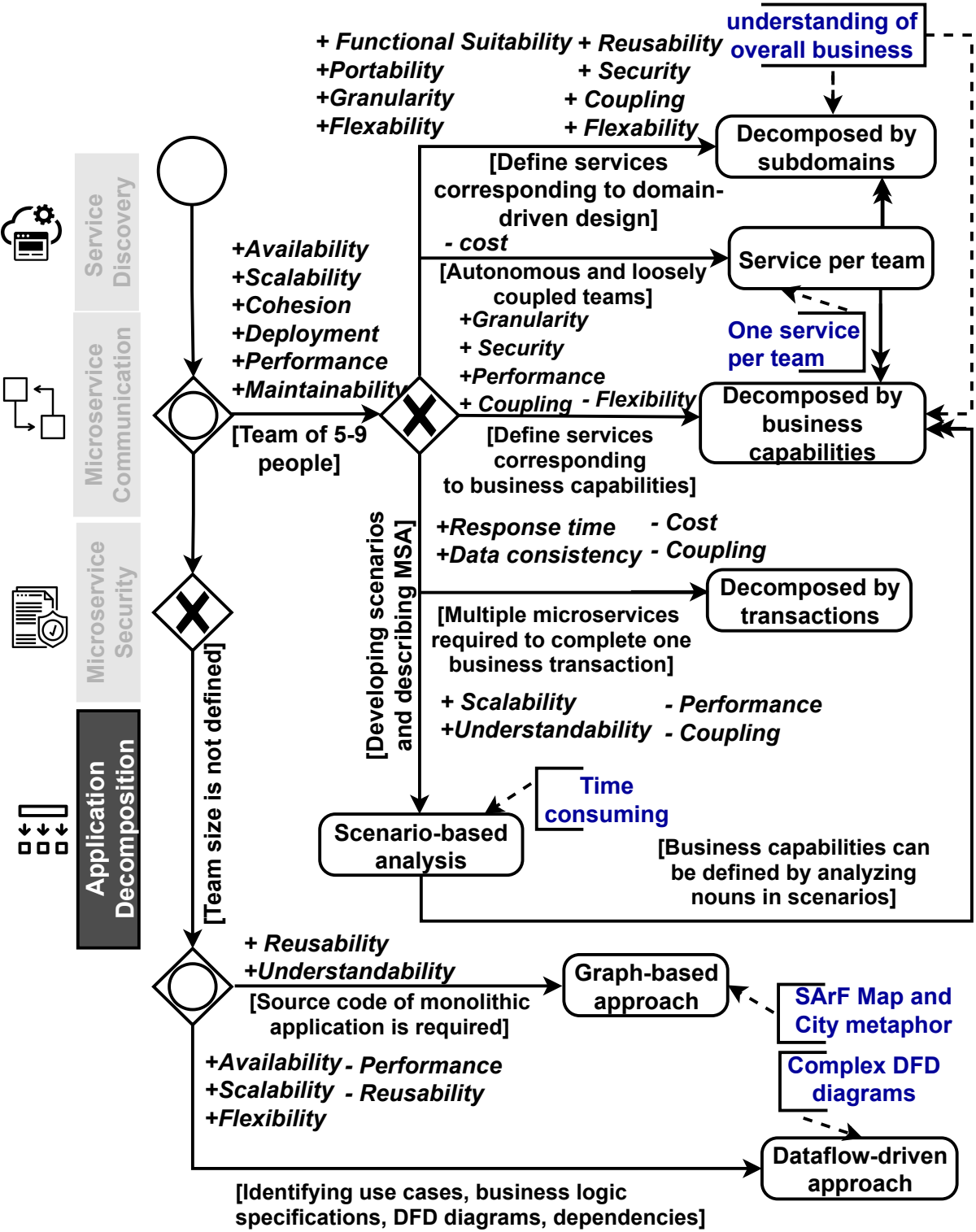
Service Discovery
Microservice Communication
Microservice Security
Application Decomposition
understanding of overall business
+ Functional Suitability
+Portability
+Granularity
+Flexability
+ Reusability
+ Security
+ Coupling
+ Flexability
Decomposed by subdomains
[Define services corresponding to domain-driven design]
- cost
Service per team
[Autonomous and loosely coupled teams]
One service per team
+Availability
+Scalability
+Cohesion
+Deployment
+Performance
+Maintainability
[Team of 5-9 people]
+Granularity
+ Security
+Performance
+ Coupling
- Flexibility
Decomposed by business capabilities
[Define services corresponding to business capabilities]
[Developing scenarios and describing MSA]
+Response time
+Data consistency
- Cost
- Coupling
Decomposed by transactions
[Multiple microservices required to complete one business transaction]
+ Scalability
+Understandability
- Performance
- Coupling
Time consuming
Scenario-based analysis
[Business capabilities can be defined by analyzing nouns in scenarios]
[Team size is not defined]
+ Reusability
+Understandability
[Source code of monolithic application is required]
Graph-based approach
SArF Map and City metaphor
Complex DFD diagrams
+Availability
+Scalability
+Flexibility
- Performance
- Reusability
Dataflow-driven approach
[Identifying use cases, business logic specifications, DFD diagrams, dependencies]