

ArchiMate Symbols for system elements

Including diagrams and definitions edited from the ArchiMate 2.1 standard.

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► A business system is

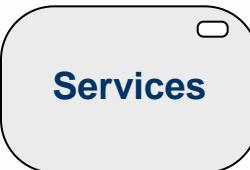
- a collection of



- who perform



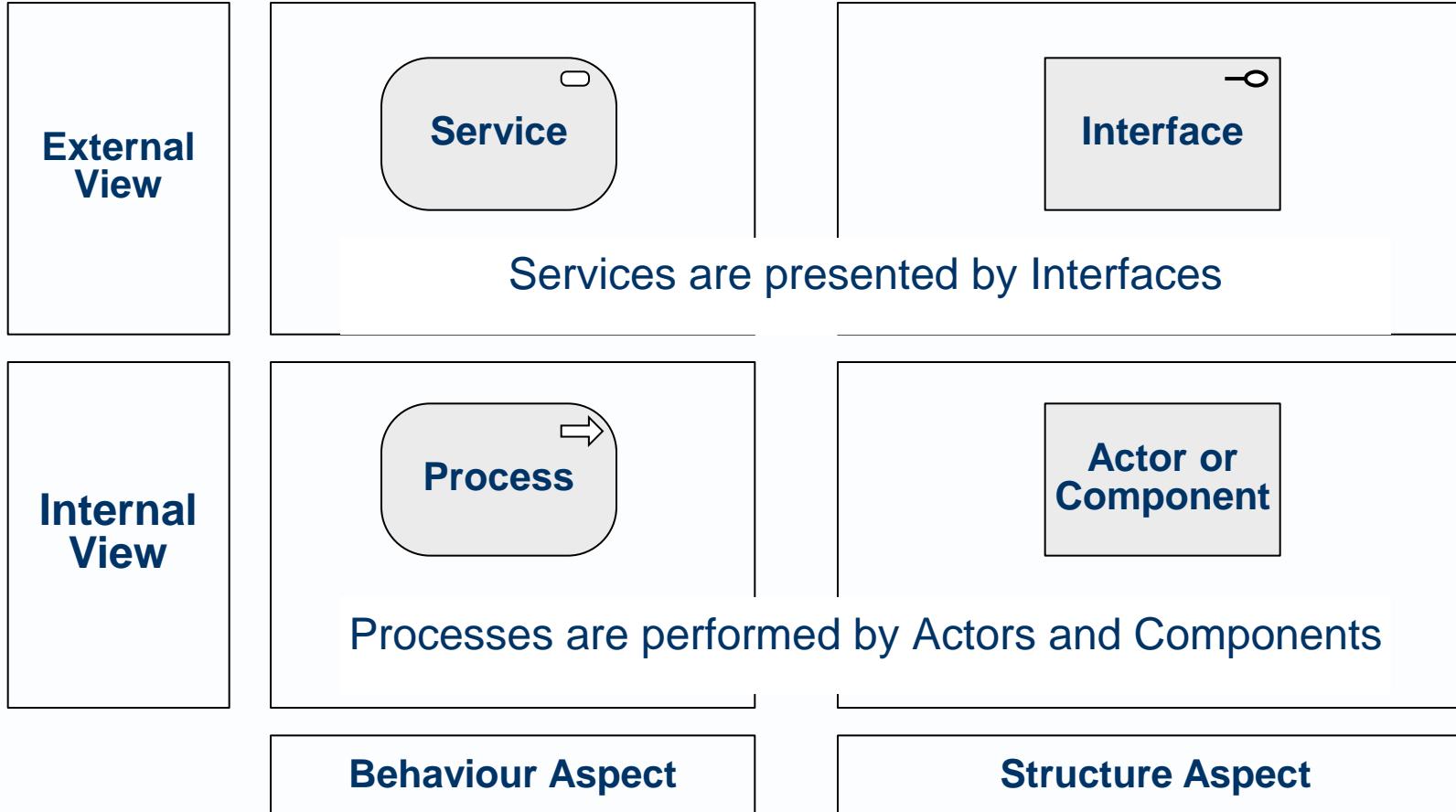
- to deliver

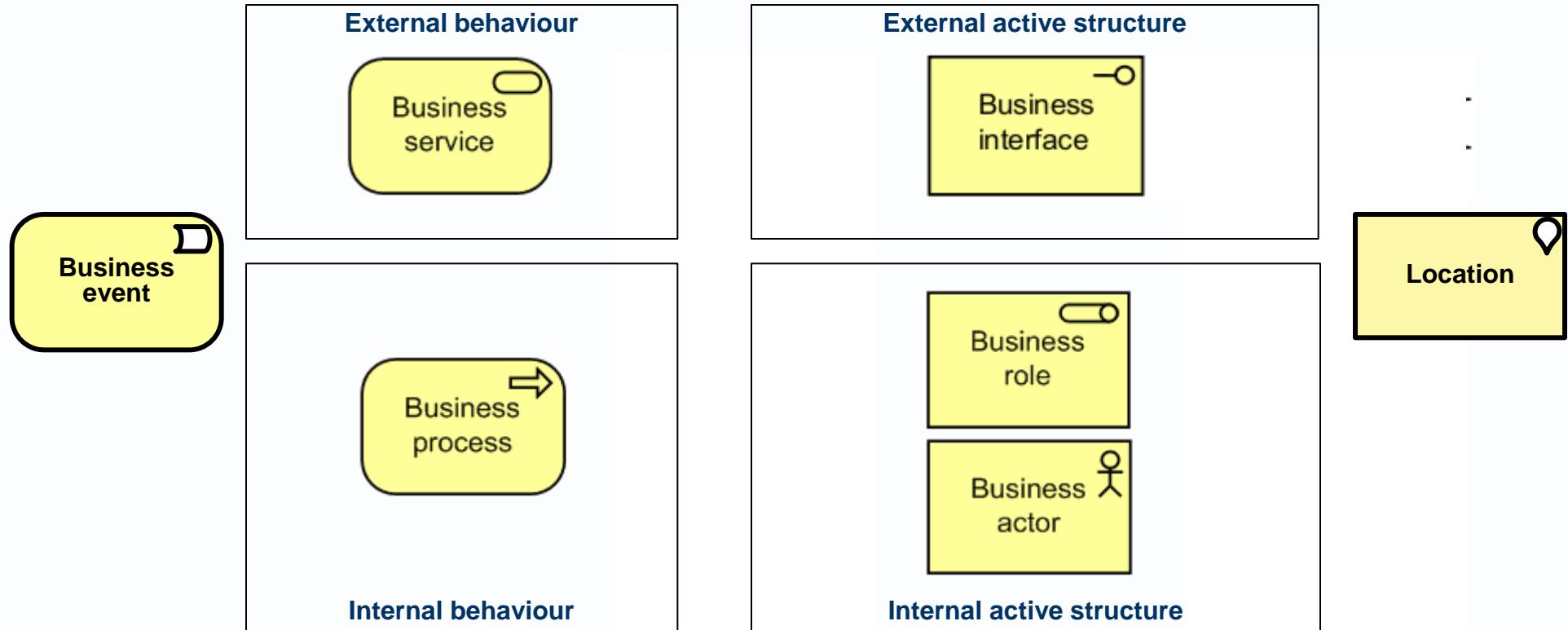


- and/or maintain



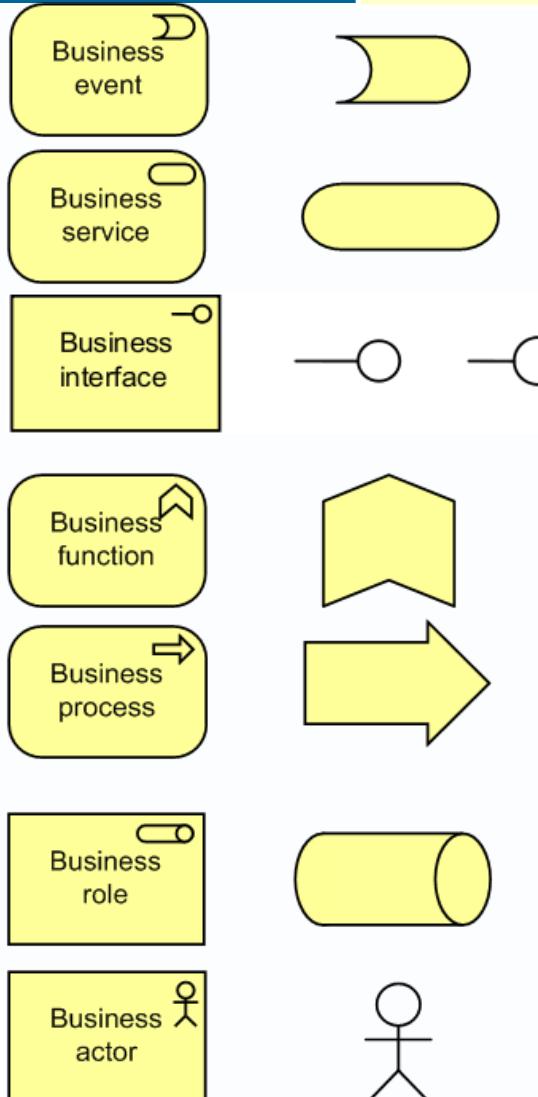
Generic system elements



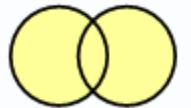
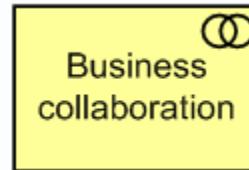
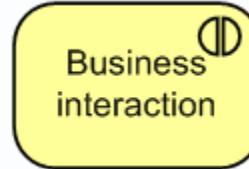


Business domain: key elements

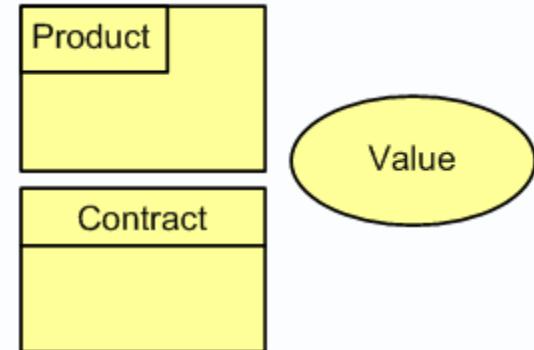
- ▶ **Business event:** Something that happens (internally or externally) and influences behavior.
- ▶ **Business service:** A service that fulfills a business need for a customer (internal or external to the organization).
- ▶ **Business interface:** A point of access where a business service is made available to the environment.
- ▶ **Business function:** A behavior element that groups behavior based on chosen criteria (typically resources or competences).
- ▶ **Business process:** A behavior element that groups behavior based on an ordering of activities. It is intended to produce a defined set of products or business services.
- ▶ **Business role:** The responsibility for performing specific behavior, to which an actor can be assigned.
- ▶ **Business actor:** An organizational entity that is capable of performing behavior.



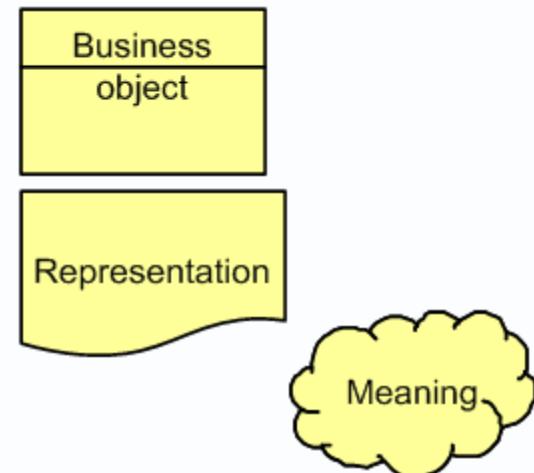
- ▶ **Business interaction:** A behavior element that describes the behavior of a business collaboration.
- ▶ **Business collaboration:** An aggregate of two or more business roles that work together to perform collective behavior.
- ▶ **Location:** A conceptual point or extent in space.



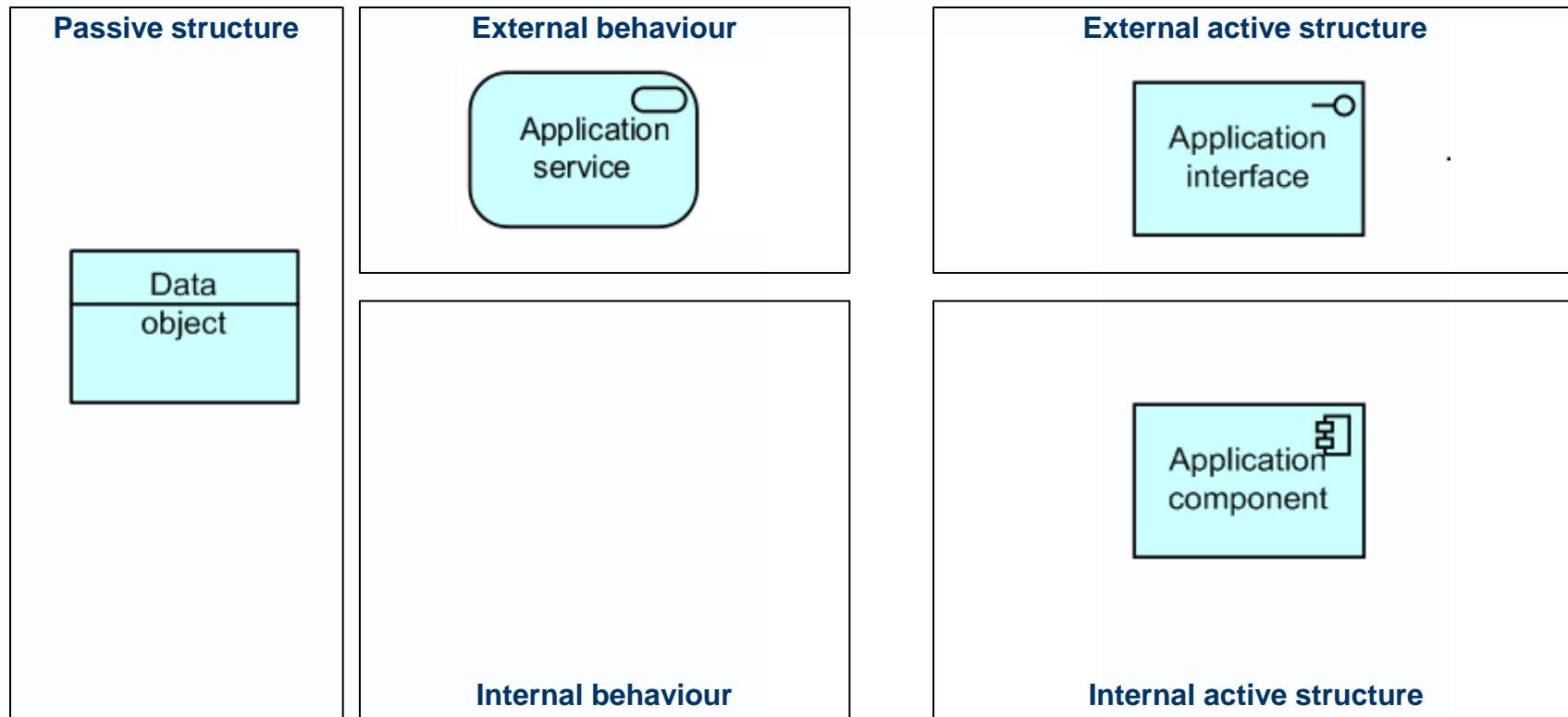
- ▶ **Product:** A coherent collection of services, accompanied by a contract/set of agreements, which is offered as a whole to (internal or external) customers.
- ▶ **Value:** The relative worth, utility, or importance of a business service or product.
- ▶ **Contract:** A formal or informal specification of agreement that specifies the rights and obligations associated with a product.



- ▶ **Business object:** A passive element that has relevance from a business perspective.
- ▶ **Representation:** A perceptible form of the information carried by a business object.
- ▶ **Meaning:** The knowledge or expertise present in a business object or its representation, given a particular context.

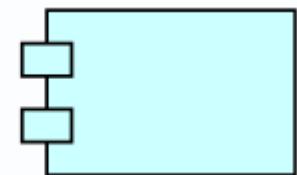
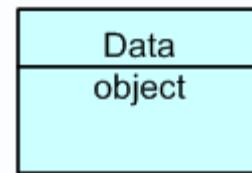
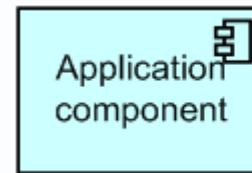
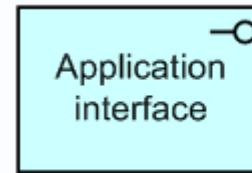
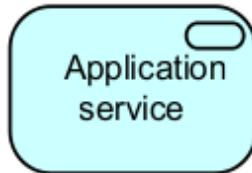


Applications domain – core elements

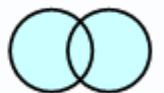
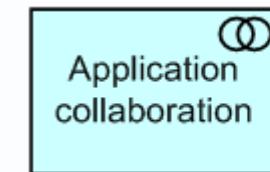
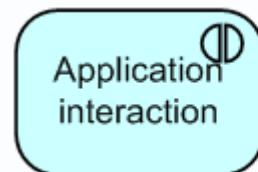
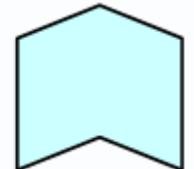
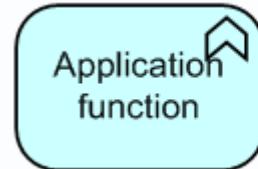


Applications domain: key elements

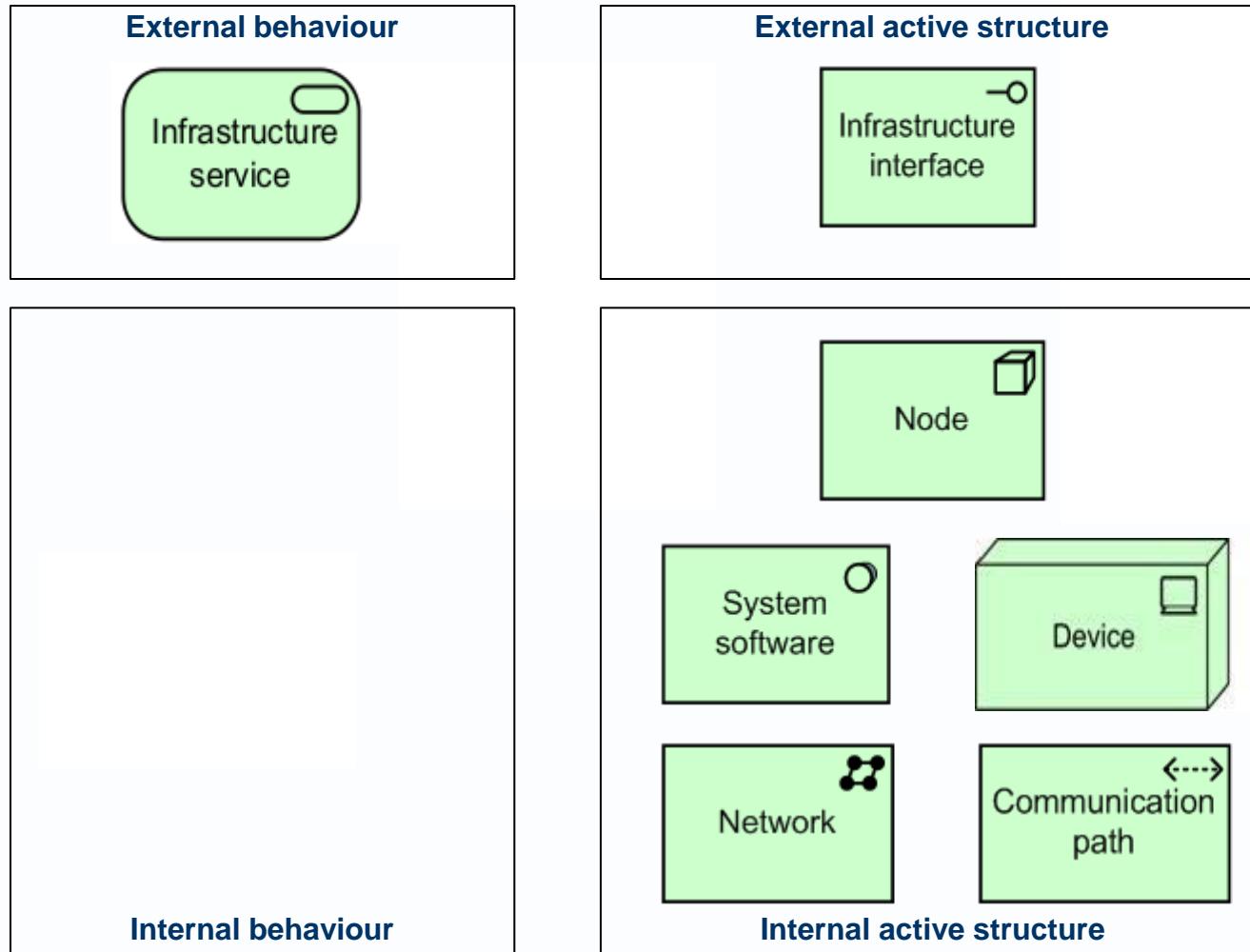
- ▶ **Application service:** A service that exposes automated behavior.
- ▶ **Application interface:** A point of access where an application service is made available to a user or another application component.
- ▶ **Application component:** A modular, deployable, and replaceable part of a software system that encapsulates its behavior and data and exposes these through a set of interfaces.
- ▶ **Data object:** A passive element suitable for automated processing.



- ▶ **Application function:** A behavior element that groups automated behavior that can be performed by an application component.
- ▶ **Application interaction:** A behavior element that describes the behavior of an application collaboration.
- ▶ **Application collaboration:** An aggregate of two or more application components that work together to perform collective behavior.

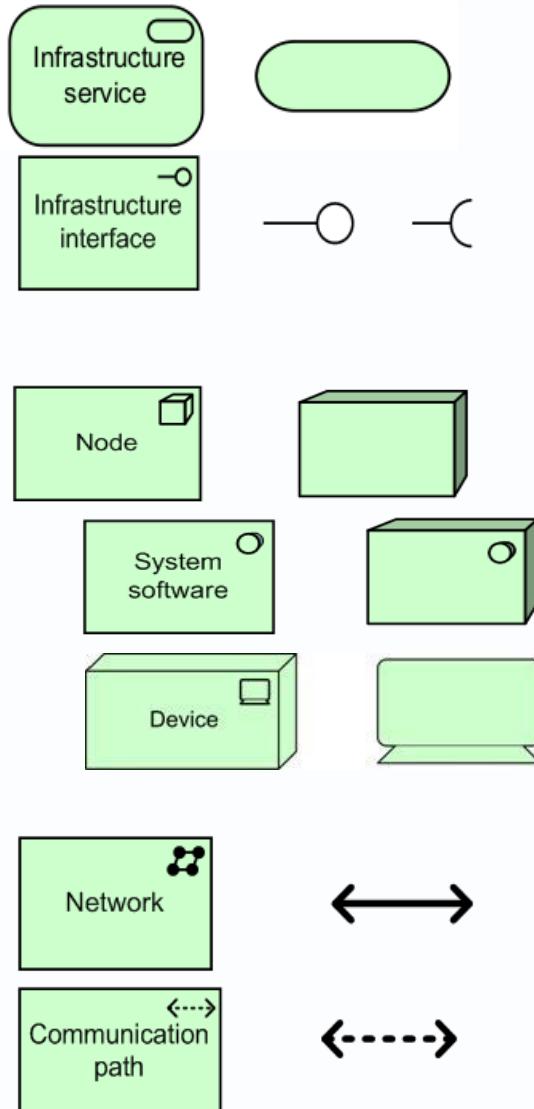


Infrastructure technology domain – core elements



Infrastructure technology domain: key elements

- ▶ **Infrastructure service:** An externally visible unit of functionality, provided by one or more nodes, exposed through well-defined interfaces, and meaningful to the environment.
- ▶ **Infrastructure interface:** A point of access where infrastructure services offered by a node can be accessed by other nodes and application components.
- ▶ **Node:** A computational resource upon which artifacts may be stored or deployed for execution.
 - **System software:** A software environment for specific types of components and objects that are deployed on it in the form of artifacts.
 - **Device:** A hardware resource upon which artifacts may be stored or deployed for execution.
- ▶ **Network:** A communication medium between two or more devices.
- ▶ **Communication path:** A link between two or more nodes, through which these nodes can exchange data.

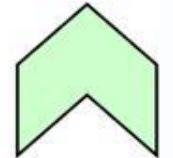
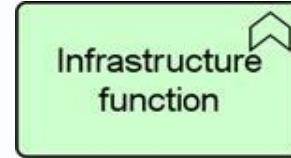


Communication path

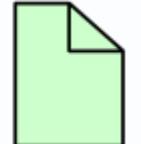
- ▶ This shows MQ as the technology used in communication path



- ▶ **Infrastructure function:** A behavior element that groups infrastructural behavior that can be performed by a node.



- ▶ **Artifact:** A physical piece of data that is used or produced in a software development process, or by deployment and operation of a system.



Motivation extension

Stakeholder: The role of an individual, team, or organization (or classes thereof) that represents their interests in, or concerns relative to, the outcome of the architecture.

Driver: Something that creates, motivates, and fuels the change in an organization.

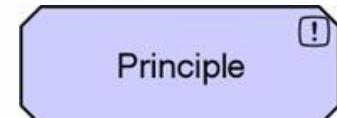
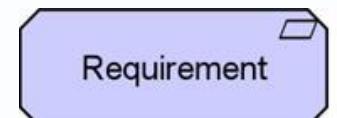
Assessment: The outcome of some analysis of some driver.

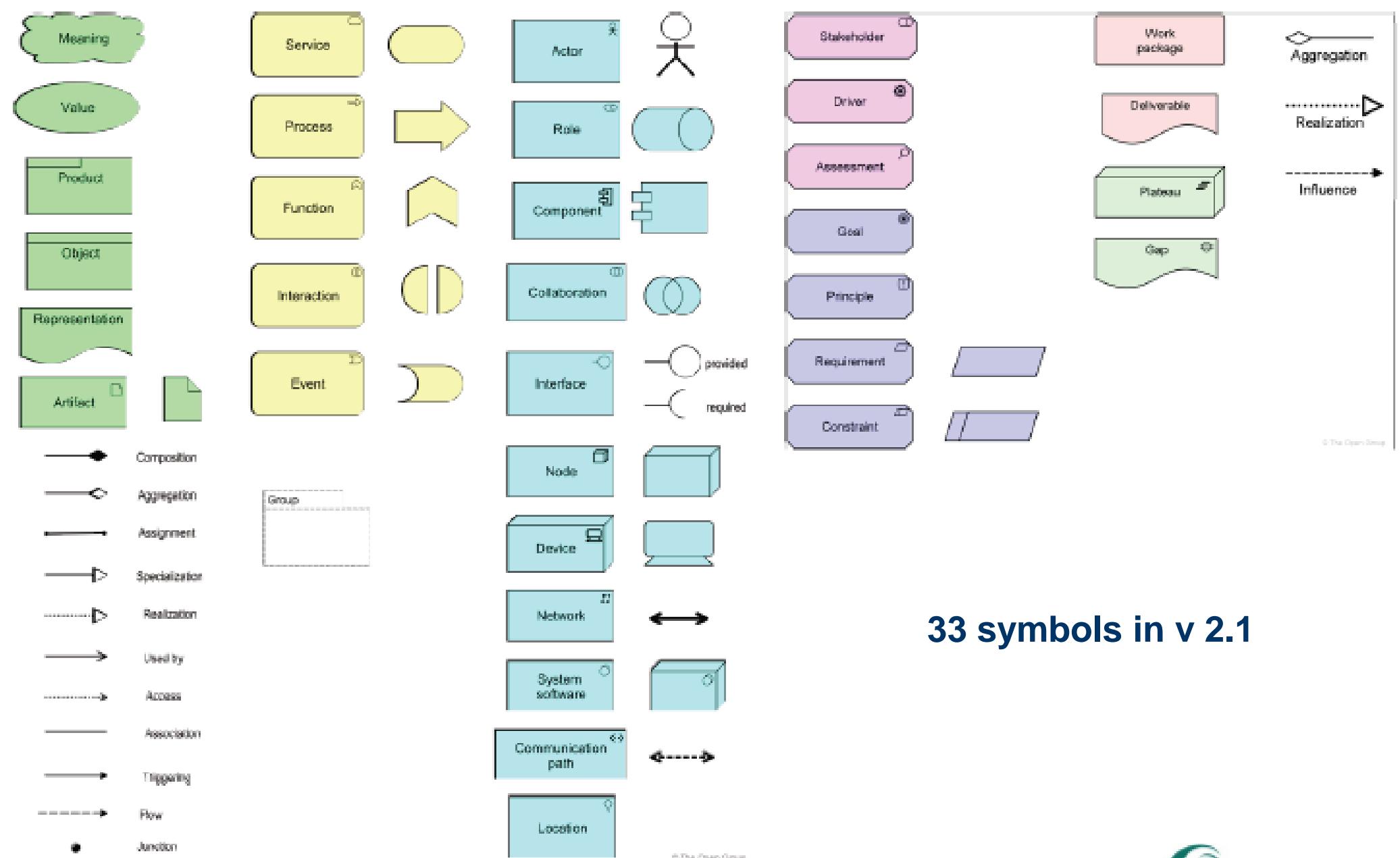
Goal: An end state that a stakeholder intends to achieve.

Requirement: A statement of need that must be realized by a system.

Constraint: A restriction on the way in which a system is realized.

Principle: A normative property of all systems in a given context, or the way in which they are realized.

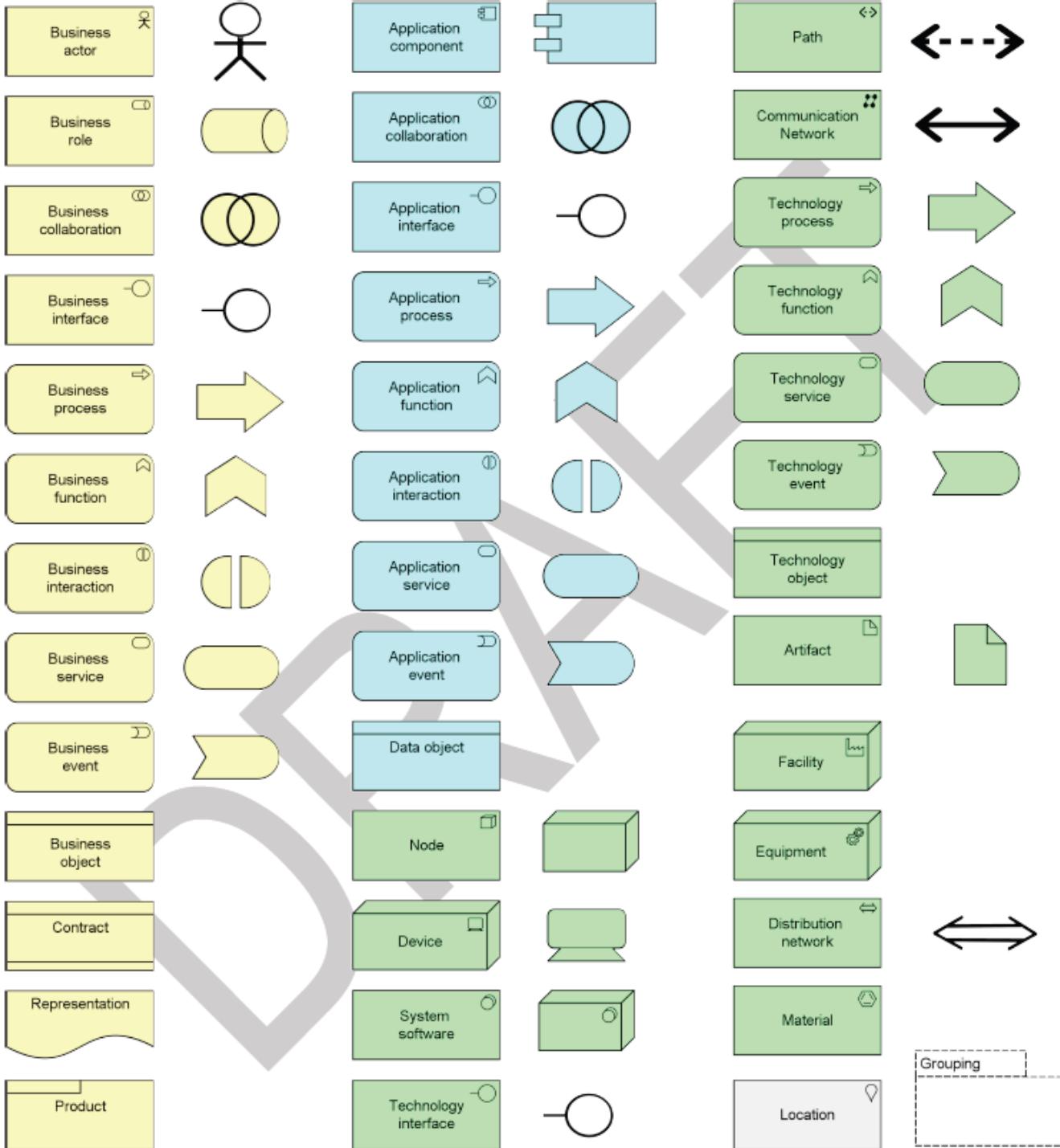




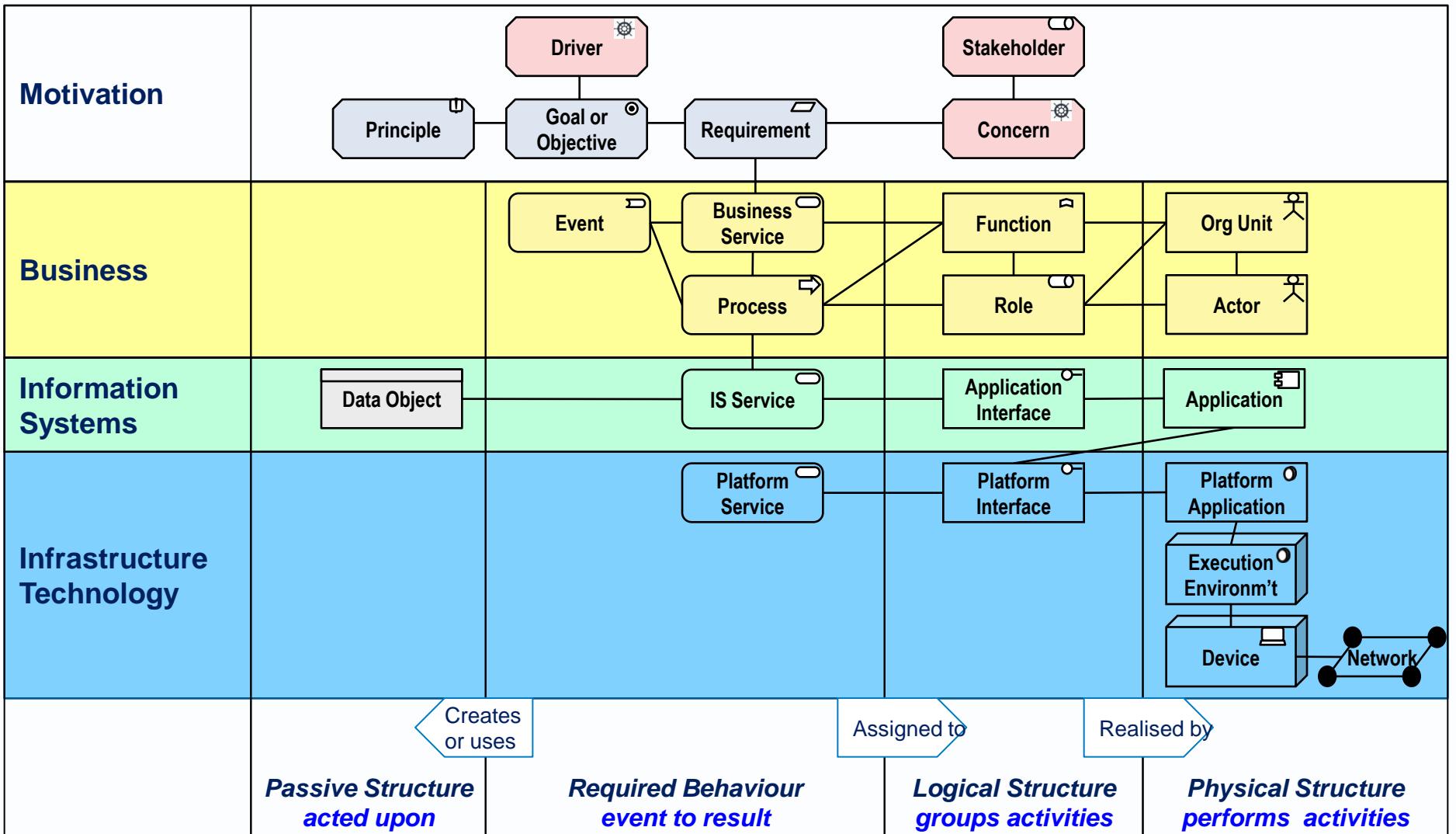
33 symbols in v 2.1

39 symbols in v3

► Draft



23 symbols used in architect training courses



16 of the symbols used today

