



# Information Management and Knowledge Management (IMKM)

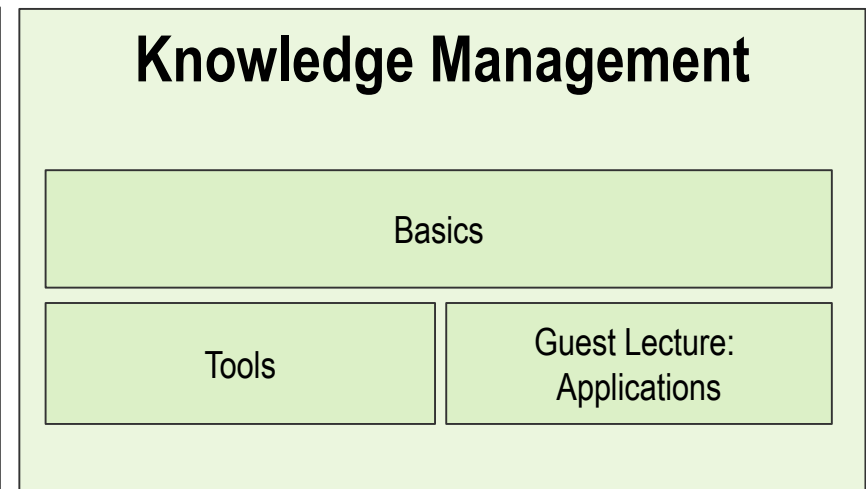
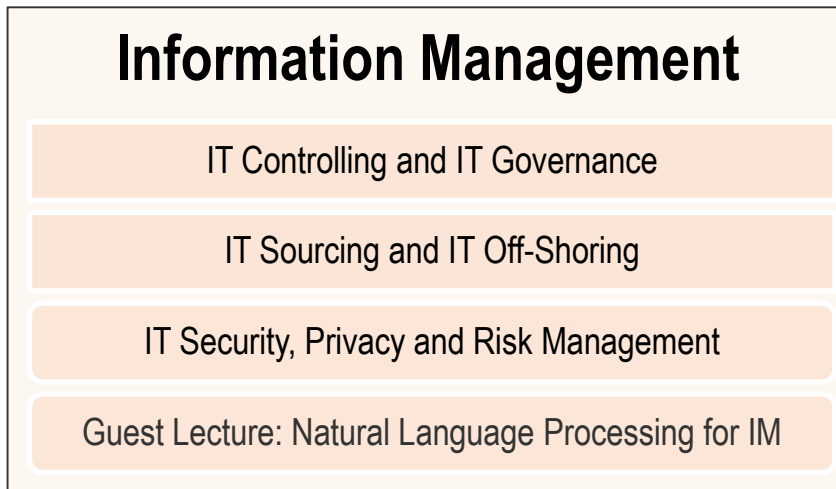
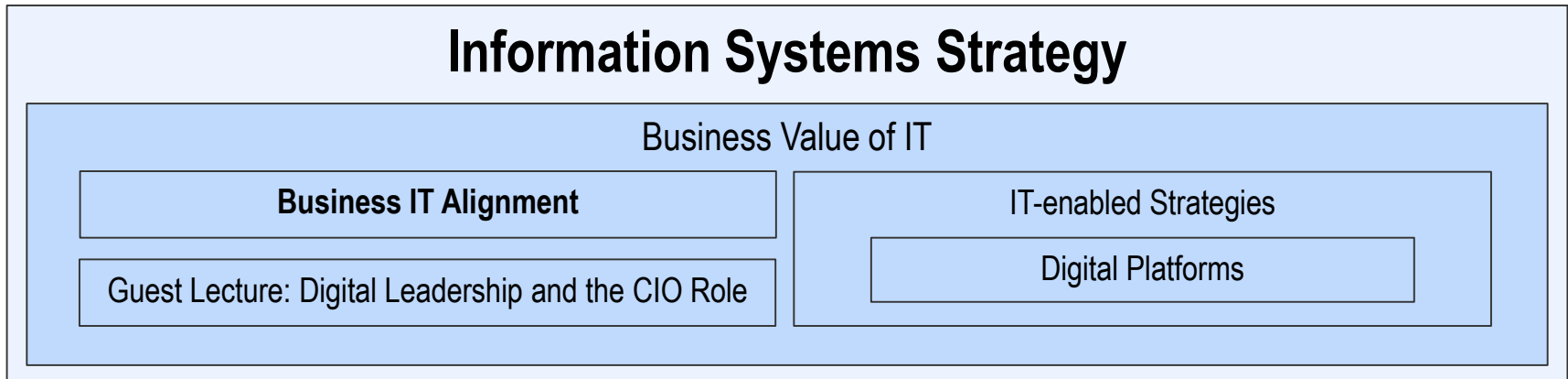
## Lecture 3 *Strategy and Business IT Alignment*

TUM

Chair for Information Systems

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# Lecture Schedule



# IMKM Lecture 3: Strategy and Business IT Alignment

## Outline

1. Strategy
  1. Market-based View
  2. Resource-based View
2. Business-IT Alignment
  1. Corporate Strategy and Information Systems
  2. Strategic Alignment Model
  3. Multi-Business Organizations

## Learning Objectives

- *You can differentiate different terms related to strategy.*
- *You understand and can apply the market-based and the resource-based view.*
- *You understand and can differentiate and discuss two strategic alignment models.*

# Reminder: Strategy and Strategic Management

## **Strategy**

- **Plan** of action to achieve a particular **goal**
- Long-term strategy: typically 3 – 5 years
- Short-term strategy: typically next 6 months

## **Strategic Management**

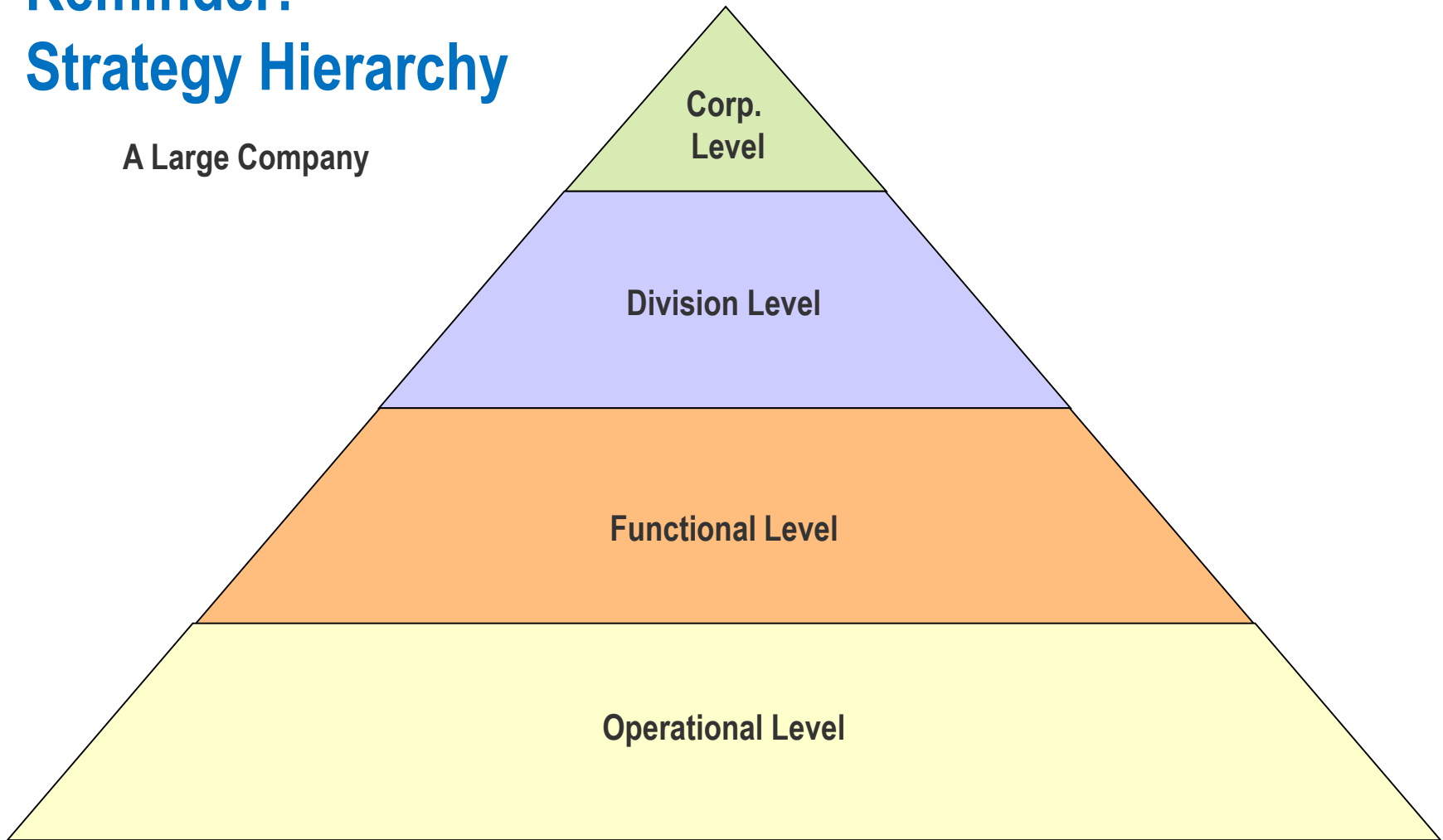
*“The process of*

- **examining** both present and future environments,
- **formulating** the organization's **objectives**, and
- **making, implementing, and controlling** decisions focused on achieving these objectives in the present and future environments.”

Smith/ Arnold/ Bizzell (1986, p.4)

# Reminder: Strategy Hierarchy

A Large Company



# Reminder: Strategy Hierarchy

## 1. Corporate strategy

- Concerned with deciding what type of business the organization should be in and how the overall group of activities should be formed and managed
- 1) growth strategy, 2) stability strategy, 3) retrenchment strategy
- Depends on SWOT analysis.

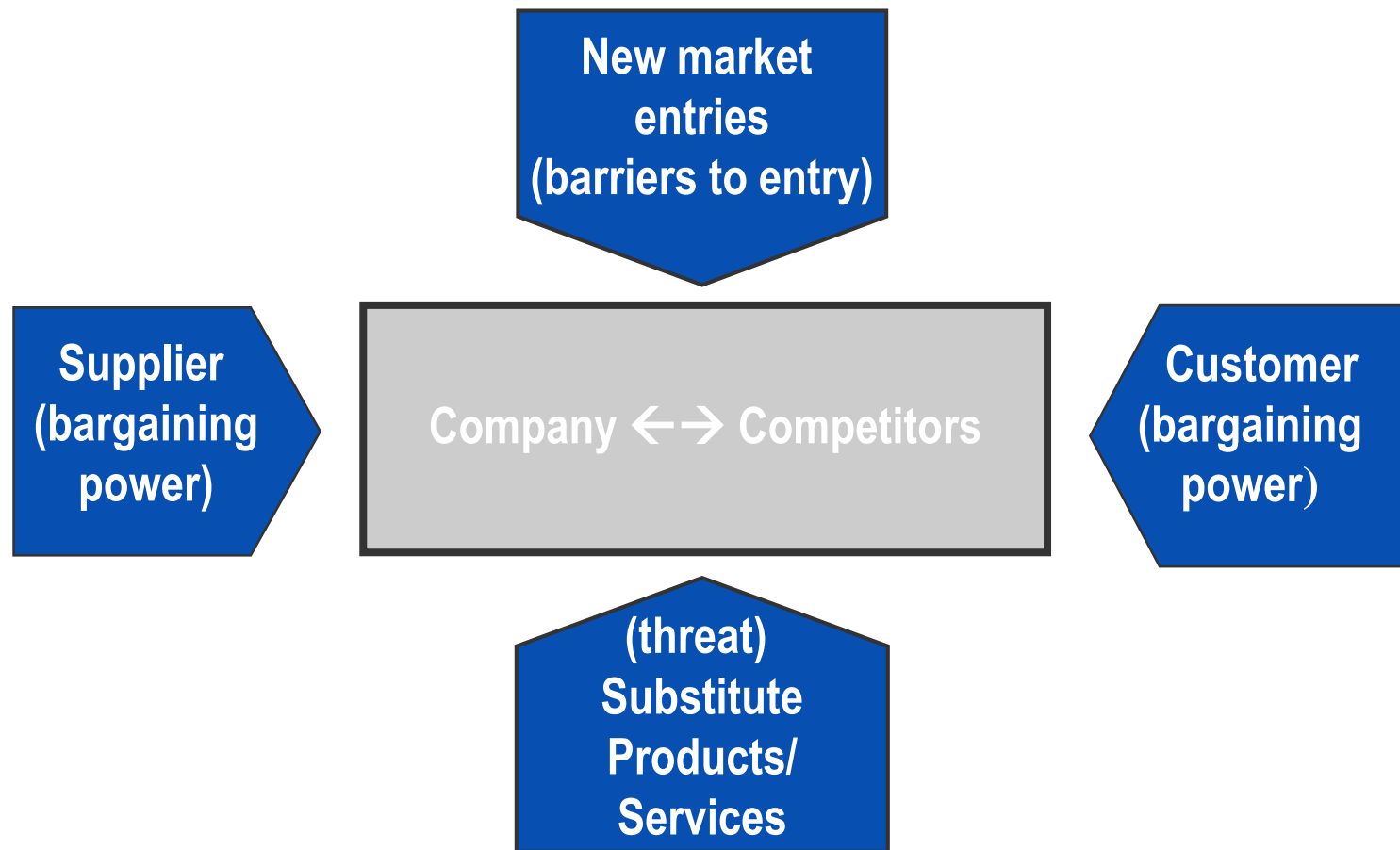
## 2. Generic or business unit strategy

- Refers to the actions and approaches crafted by management to create successful performance in one particular line of business
- 1) cost leadership, 2) differentiation, 3) focus, 4) mixed

## 3. Functional strategy

- Concerned with managerial game plan for running a major functional activity or process within a business such as research and development unit, marketing unit, financial unit, production unit, HR development unit, etc.

# Porter's Five Forces of the Market-based view (MBV)



Search for attractive markets and position yourself within competition

# Porter's Five Forces: Basic idea

- Assumes that a company **searches** for an attractive market and **positions** itself in the market. It does so by
  - choosing a suitable **generic strategy** (see following slides)
  - influencing the direct market surroundings
- Starting point: the **objectives** that should be reached by positioning in the competitive field
- The organizational structure of a company should **follow** these targets („Structure follows strategy“)
- Emphasizes the **role of external factors**, (e.g., attractiveness of an industry, competitive forces) for business success



# Generic Strategies according to Porter



**Decide for one strategy and do not get stuck in the middle!**

Adapted from Porter (1980)

# Generic Strategy: Cost Leadership

- Aim: striving to be the low-cost producer in an industry
- Especially effective if
  - the market is composed of many **price-sensitive** buyers
  - there are **few ways** to achieve product **differentiation**
  - buyers do **not care** much about **differences** from brand to brand
  - there are a **large number of buyers** with significant bargaining power
- Basic idea: gain market share and sales and ultimately drive competitors out of the market by
  - **underprice** competitors or
  - offer a better **cost-value** ratio (similar price, but better value)

# Generic Strategy: Differentiation

- Aim: produce products that are considered **unique**
- Consumers that are strongly attached to the **differentiation features** allows a firm
  - to charge **higher prices** for its products
  - to gain **customer loyalty** because
- Risk: the unique product **may not be valued highly enough** by customers to justify the higher price.

# Generic Strategy: Focus

- Aim: producing products and services that fulfill the needs of **small groups** of consumers
- Two types of focus strategies
  1. A **low-cost focus strategy** offers products or services to a small range (niche) of customers at the **lowest price** available on the market.
  2. A **best-value focus strategy** offers products to a small range of customers at the **best price-value** available on the market. This is sometimes called focused differentiation.
- Most effective if
  - the niche is profitable and **growing**
  - industry **leaders are uninterested** in the niche
  - the industry offers **several niches**
  - there is **little competition** in the niche segment

# Generic Strategies according to Porter



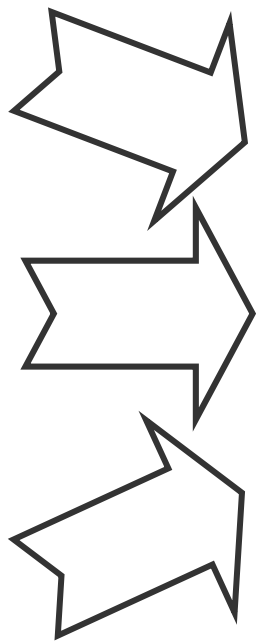
**Decide for one strategy and do not get stuck in the middle!**

Adapted from Porter 1980

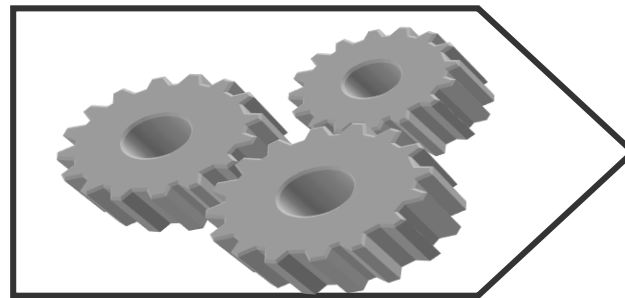
## Resource-based view (RBV)

- Success & failure depends on companies' internal capabilities
  - Basic assumptions: Each company has certain **core competencies** and **resources** that are **responsible** for the company's success
  - Companies **differ** significantly in their **resources**
- Recommendations for core competency management
  - Determine **existence** of core competencies and analyze their **potential**
  - Keep tangible resources (market oriented production facilities) **up to date**
  - Develop intangible resources/ capabilities (organization culture and principles, skills, brands, ...)
- Resources for competitive advantage should be **VRIN**
  - **Valuable**: they enable a firm to implement strategies that improve its efficiency and effectiveness.
  - **Rare**: not available to other competitors.
  - **Imperfectly imitable**: not easily implemented by others.
  - **Non-substitutable**: not able to be replaced by some other non-rare resource.

# Relationship of Components



**Resources**



**Competencies**

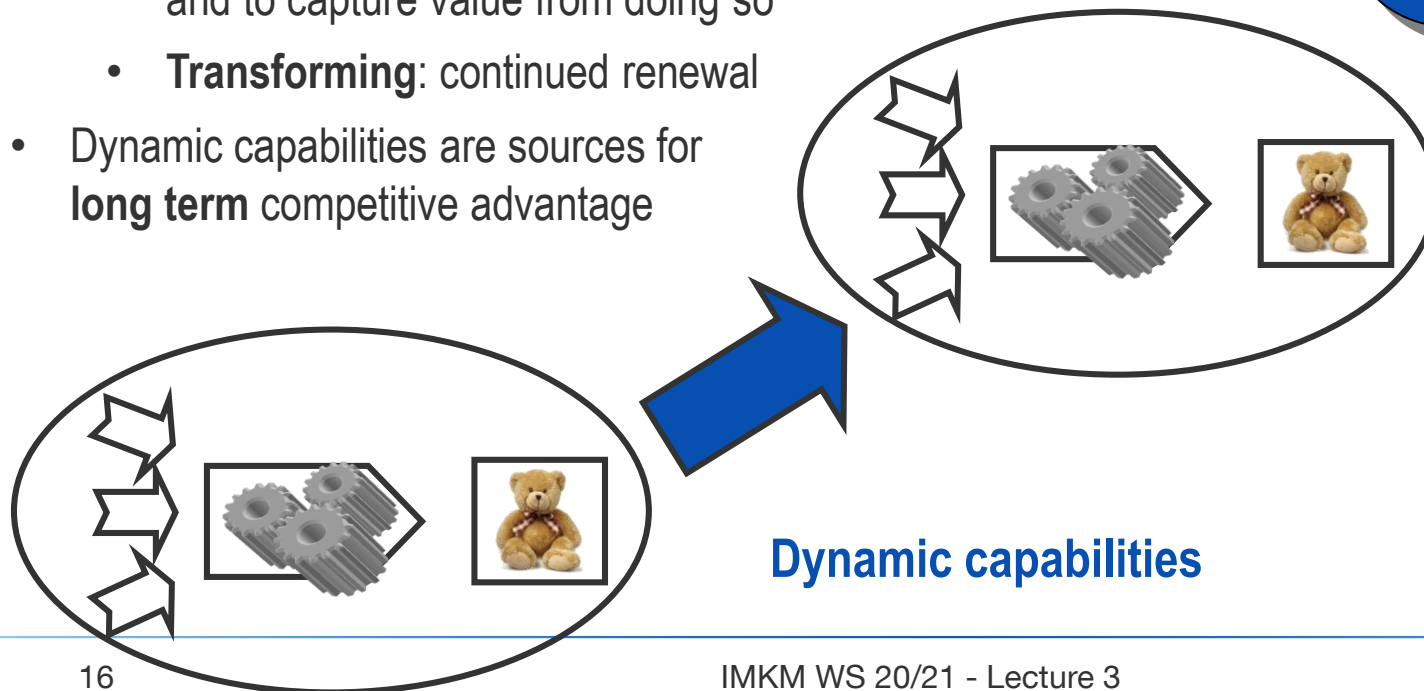
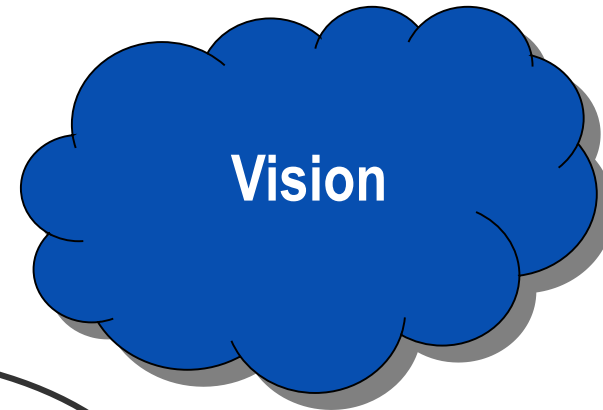


**Product**

Core competencies = competencies that are most important for competition  
Core competencies are the starting point for strategy development

# Dynamic capabilities

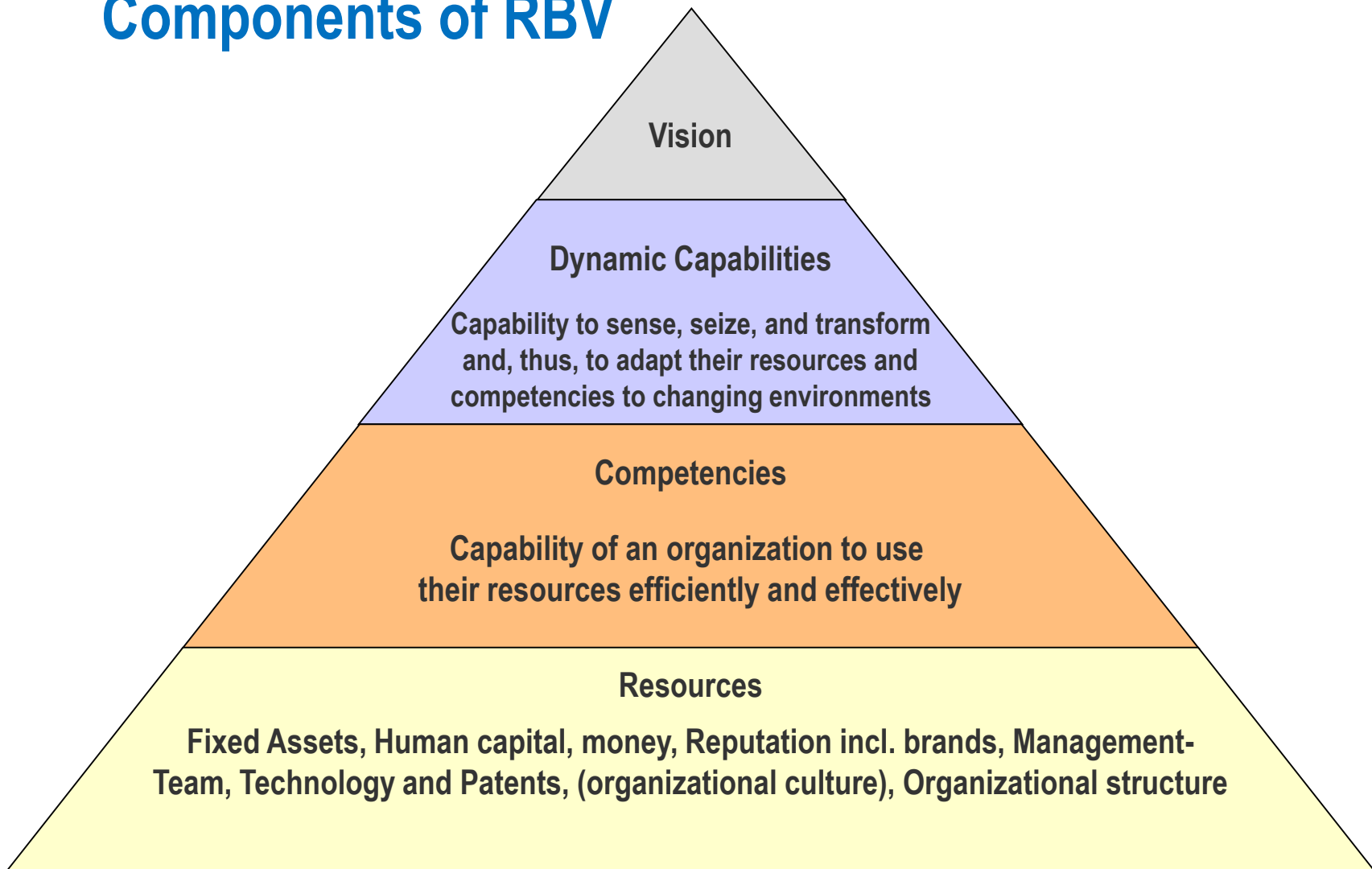
- Dynamic capabilities and vision relate to **change** in the organization
- Dynamic capabilities include three primary clusters of competences
  - **Sensing**: identification and assessment of an opportunity
  - **Seizing**: mobilization of resources to address an opportunity and to capture value from doing so
  - **Transforming**: continued renewal
- Dynamic capabilities are sources for **long term** competitive advantage



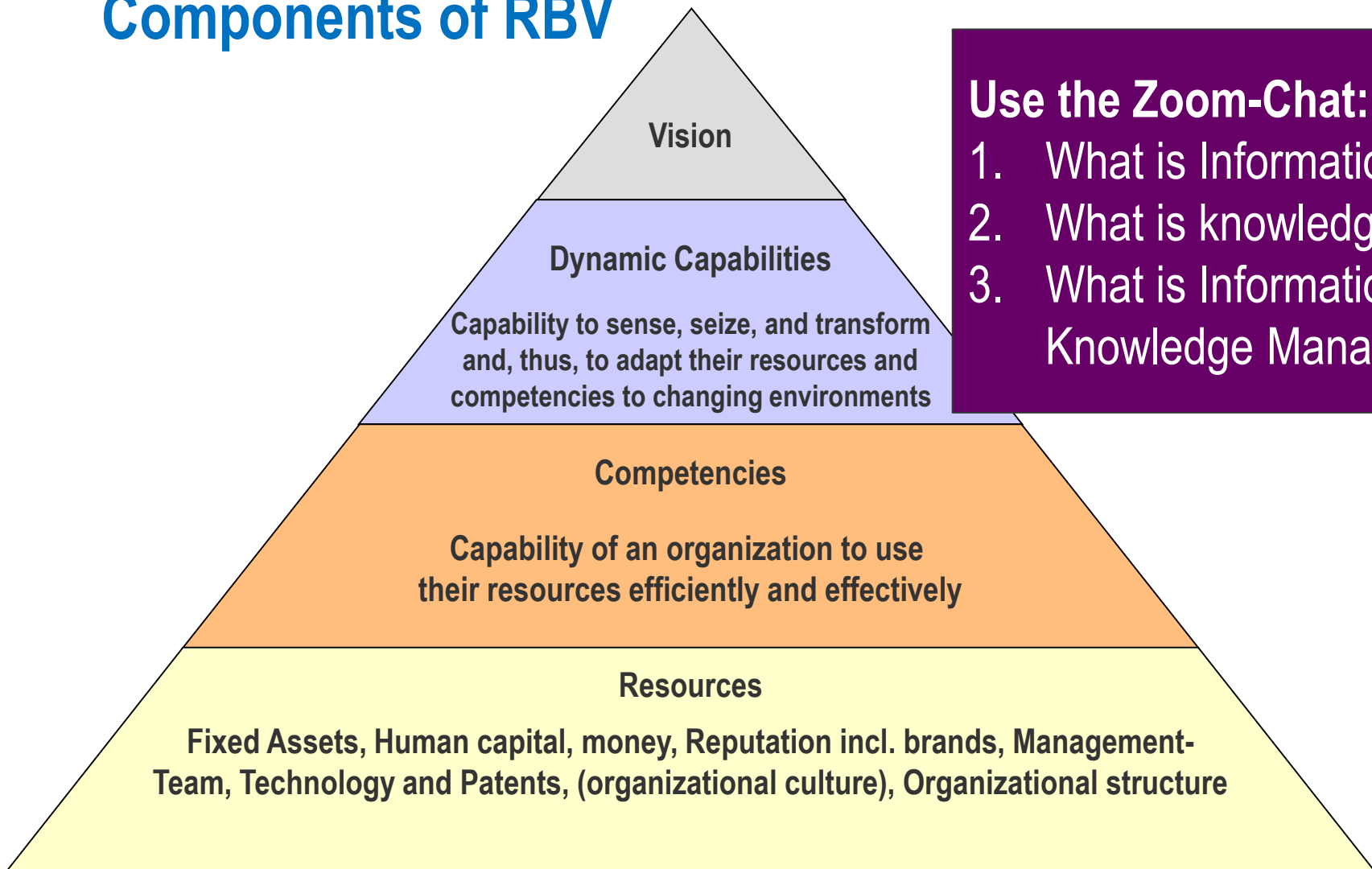
Teece, D. J. (2013)



# Components of RBV



# Components of RBV



## Use the Zoom-Chat:

1. What is Information?
2. What is knowledge?
3. What is Information & Knowledge Management?

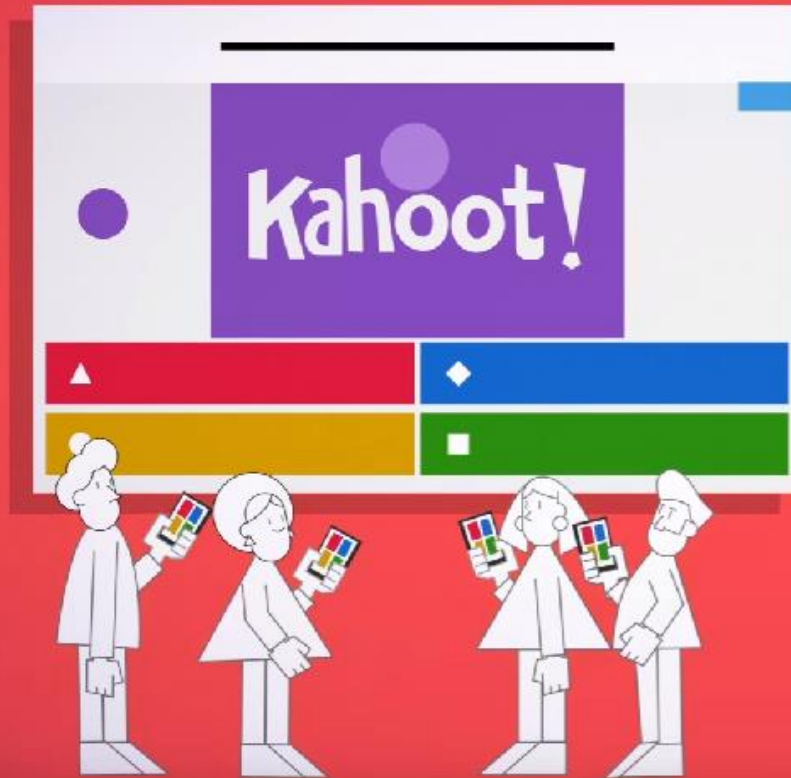
# Market-based View and Resource-based View

What are **strengths** of the two views?

What are **weaknesses** of the two views?

# Quiz Time!

Go to [kahoot.it](https://kahoot.it)



# IMKM Lecture 3: Strategy and Business IT Alignment

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## Reminder: Basic Terms

- **IS Strategy:** Focuses on the system or business applications of IT and is primarily concerned with **aligning** them with business needs and using them to **derive strategic benefits**

**What?**

- **IT Strategy:** Concerned with the various **aspects of the technology** such as architecture, technical standards, security levels, risk attitudes, and technology policies

**How?**

- **IM Strategy:** Concerned with the **structures and roles for the management of IS and IT**, focuses on issues such as the relationship between specialist and users, management control, performance measurement processes, management responsibilities

**Which way? Who does it? Where is it located?**

Source: Earl 1989, p. 65

# Strategic Fit / Business IT Alignment

- **Strategic fit** among many activities is fundamental not only to competitive advantage but also to the sustainability of that advantage. It is harder for a rival to match an **array of interlocked activities** than it is merely to imitate a particular sales-force approach, match a process technology, or replicate a set of product features.

*Porter (1996)*

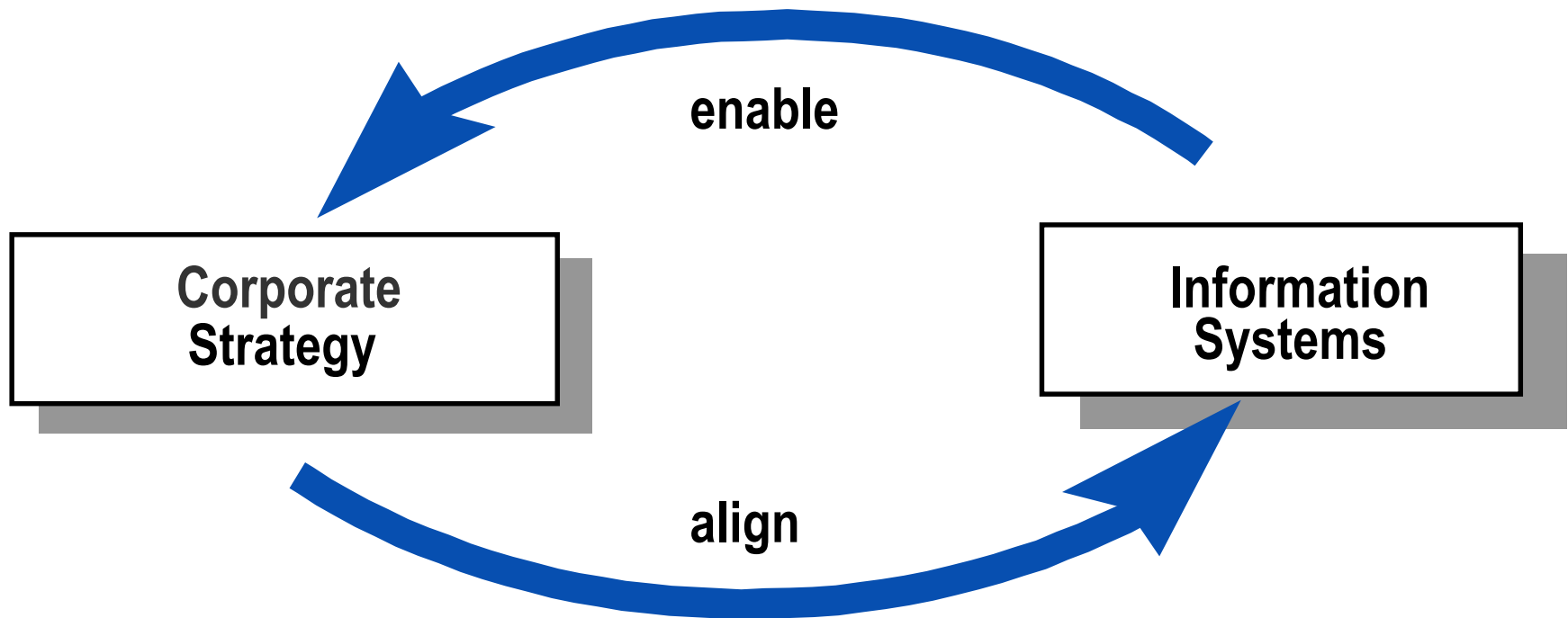
- **Strategic alignment** is the extent to which the business mission, objectives, and plans are supported by the IS mission, objectives, and plans

Reich and Benbasat, 2000; Sambamurthy and Zmud, 1999

- **Alignment** is the **degree of fit** and **integration** among business strategy, IT strategy, business infrastructure, and IT infrastructure.

Henderson and Venkatraman (1993)

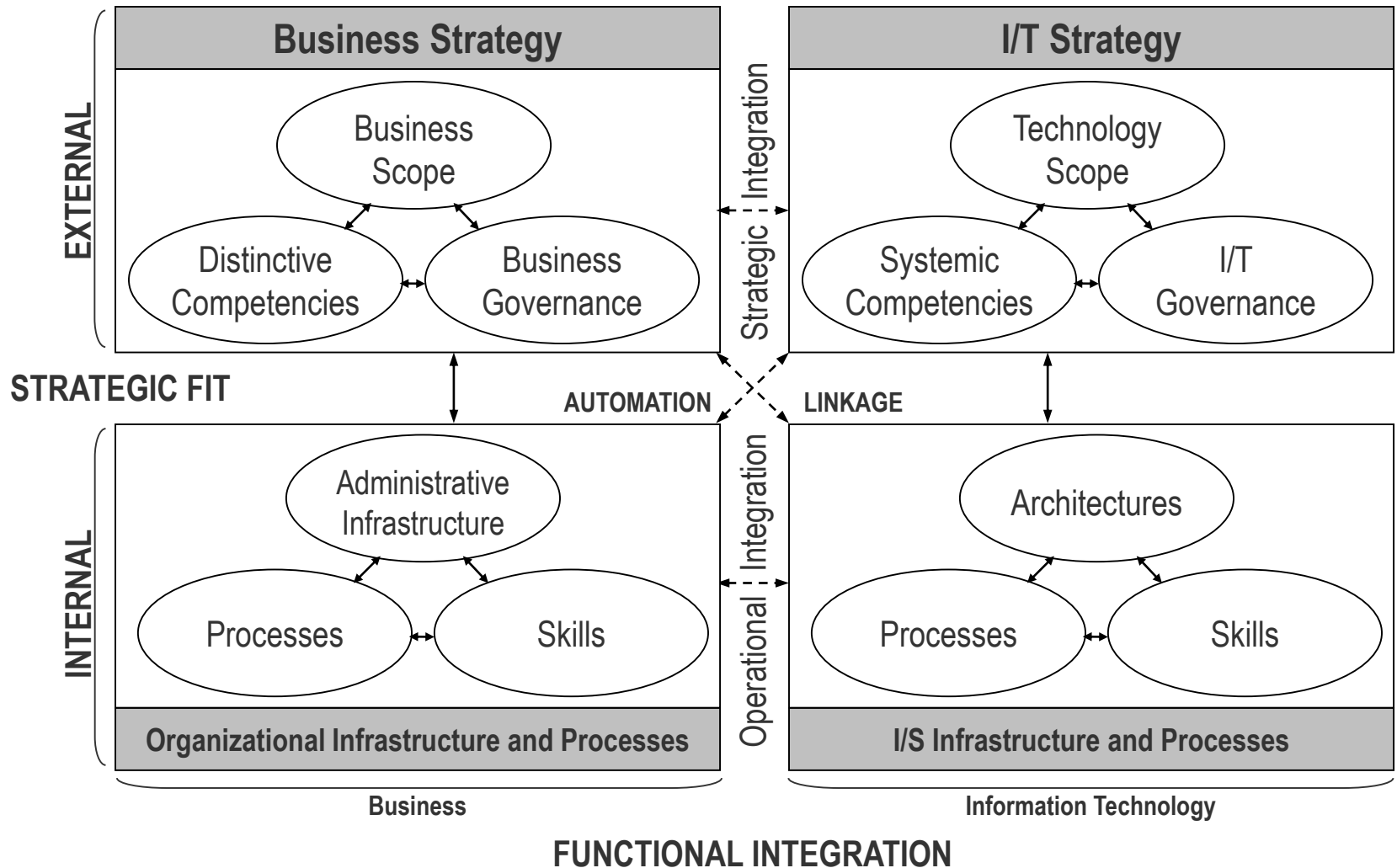
# Relationship between Corporate Strategy and Information Systems



Krcmar (2015), p. 396

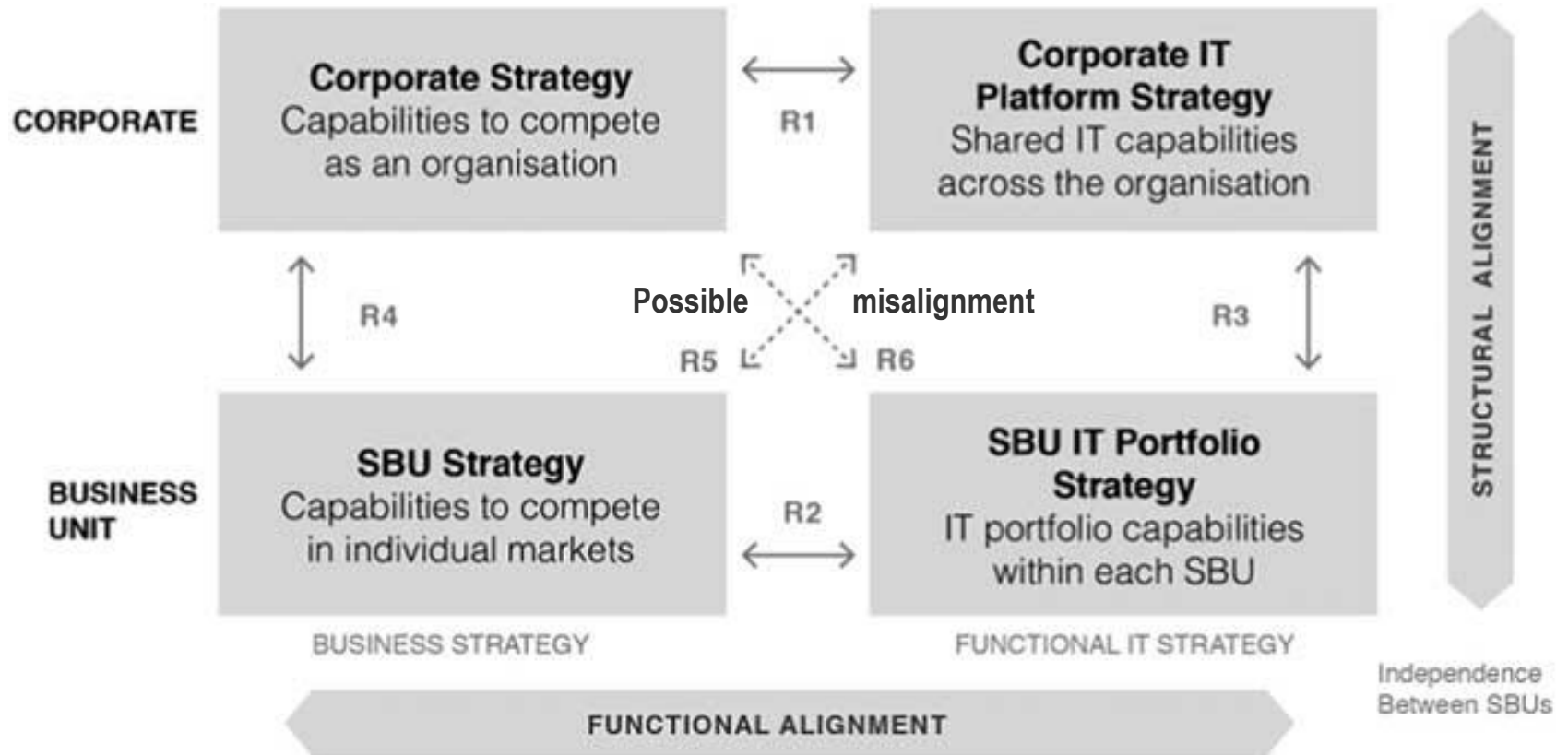


# Strategic Alignment Model



Henderson/Venkatraman (1999)

# IT Alignment in Multi-Business Organizations

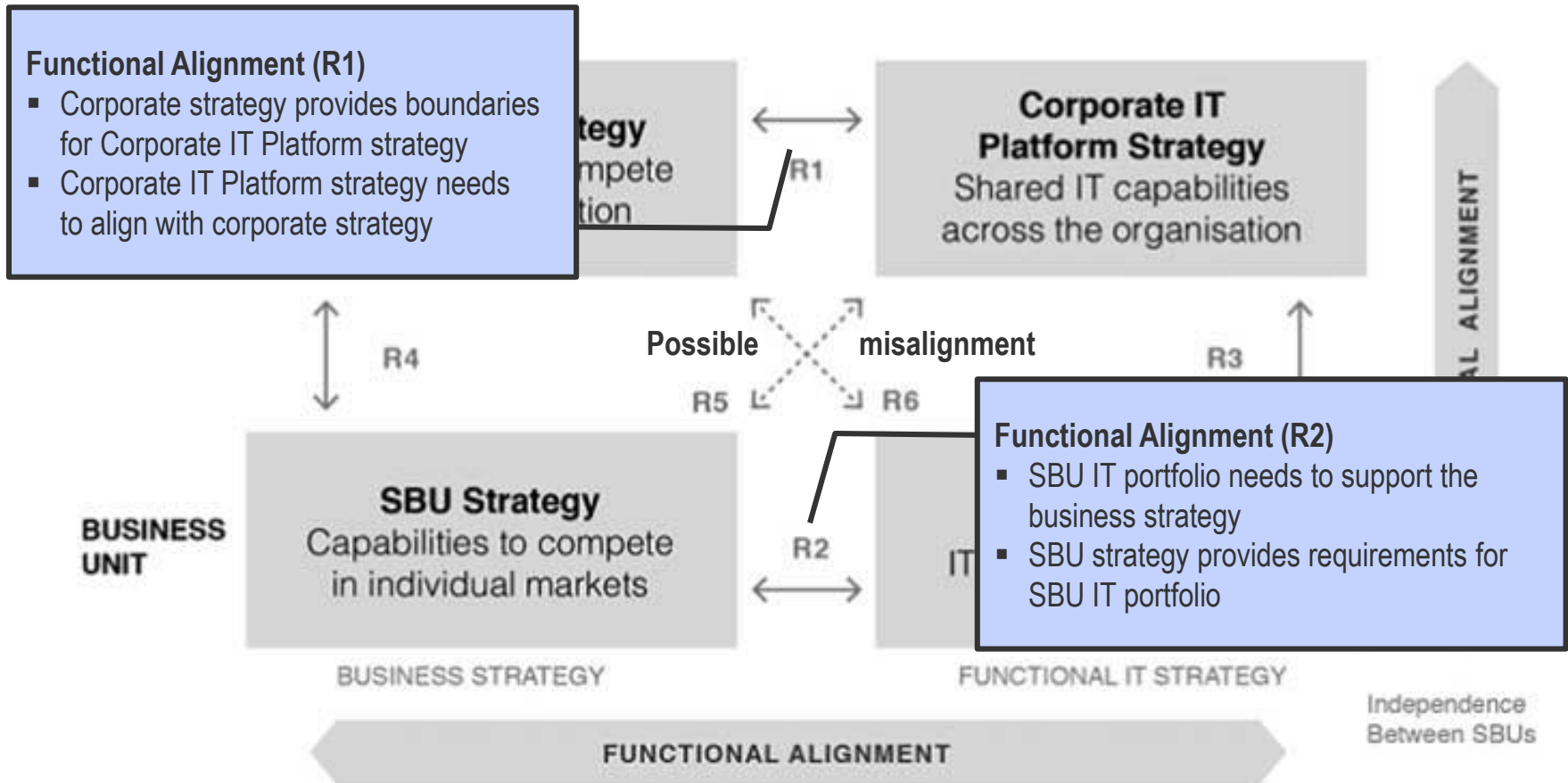


SBU = strategic business unit

R# = alignment relationship

Reynolds & Yetton (2015)

# IT Alignment in Multi-Business Organizations

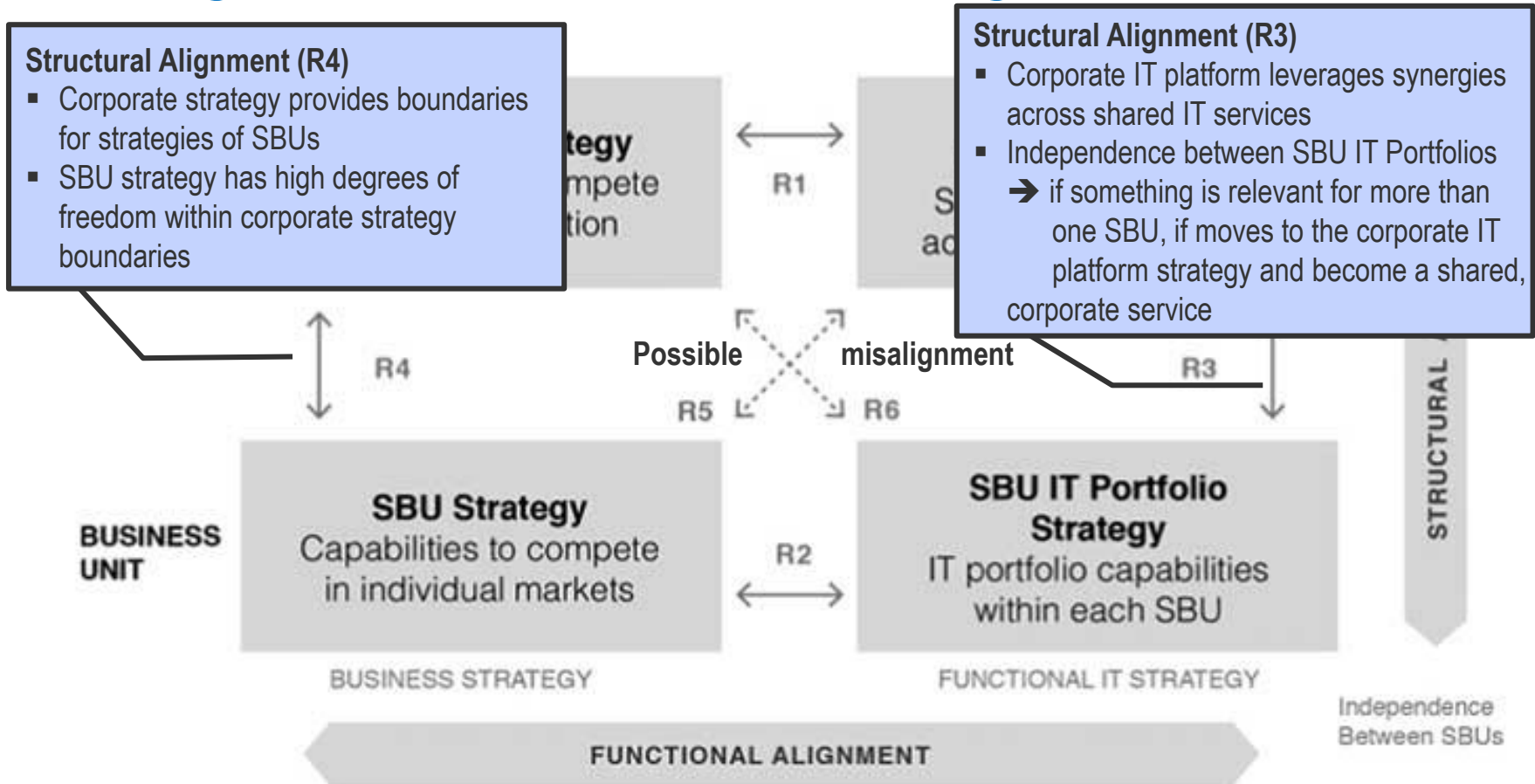


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# IT Alignment in Multi-Business Organizations

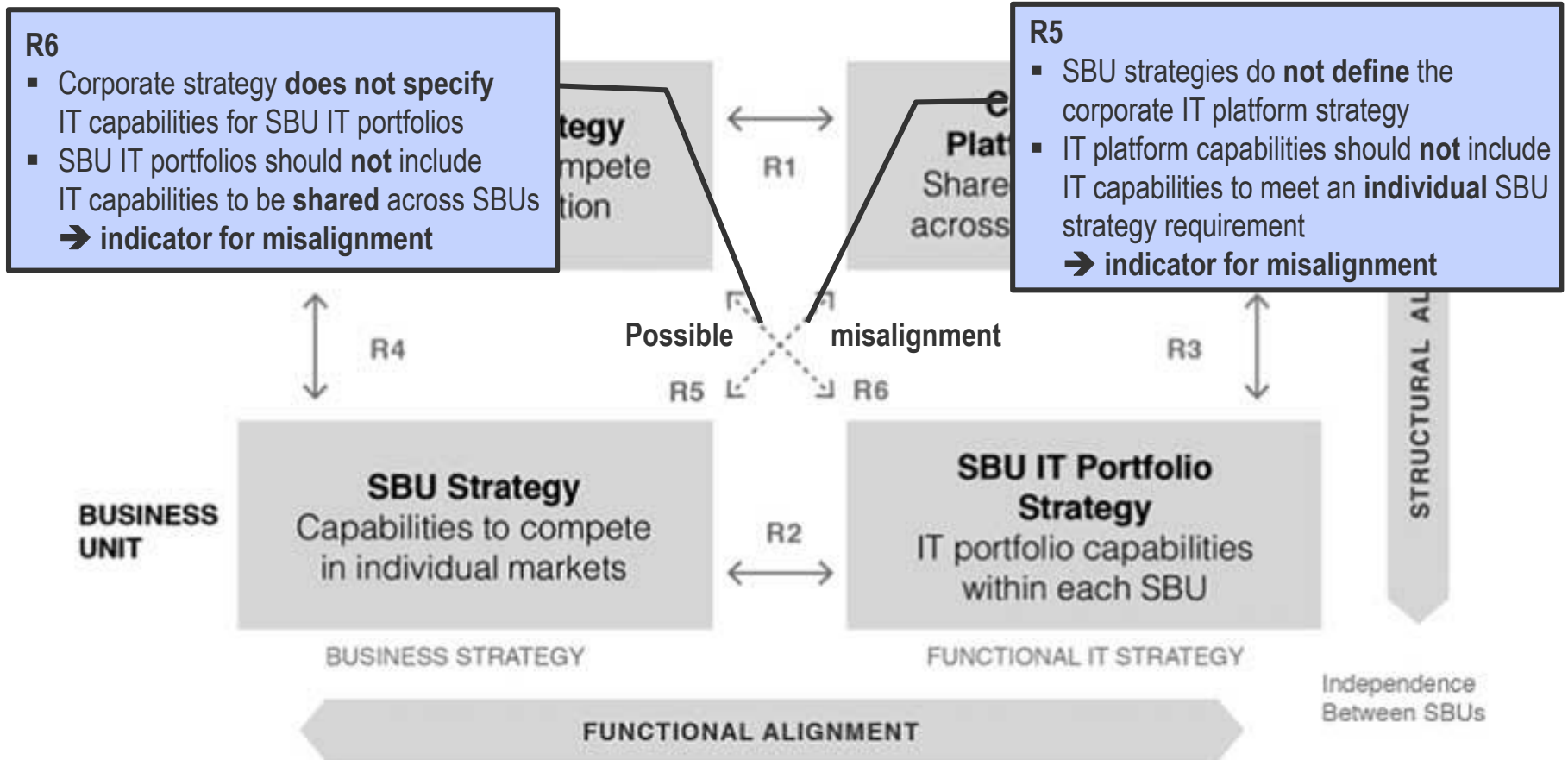


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# IT Alignment in Multi-Business Organizations

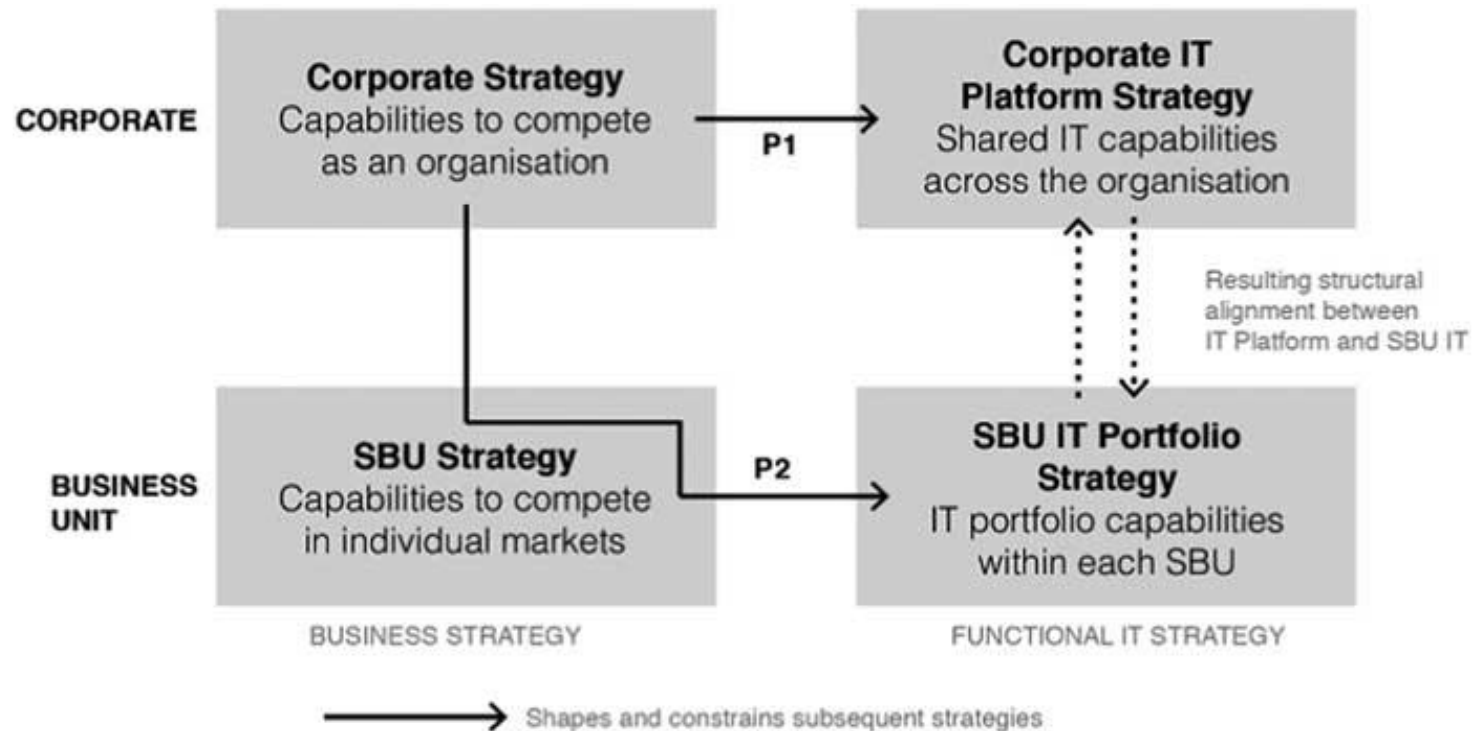


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# IT Alignment in Multi-Business Organizations



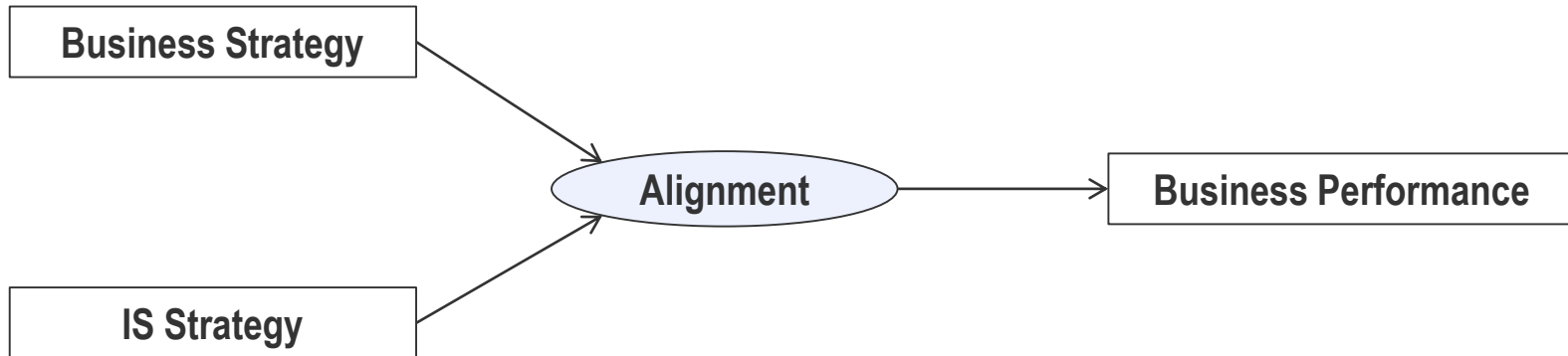
## Two paths to temporal alignment in Multi-Business Organizations

- **Path 1 (P1)**: sequence of strategic choices to develop the shared IT platform capabilities.
- **Path 2 (P2)**: sequence of strategic choices to develop SBU IT application capabilities.

(typical top-down, business-led approach for alignment)

Reynolds & Yetton (2015)

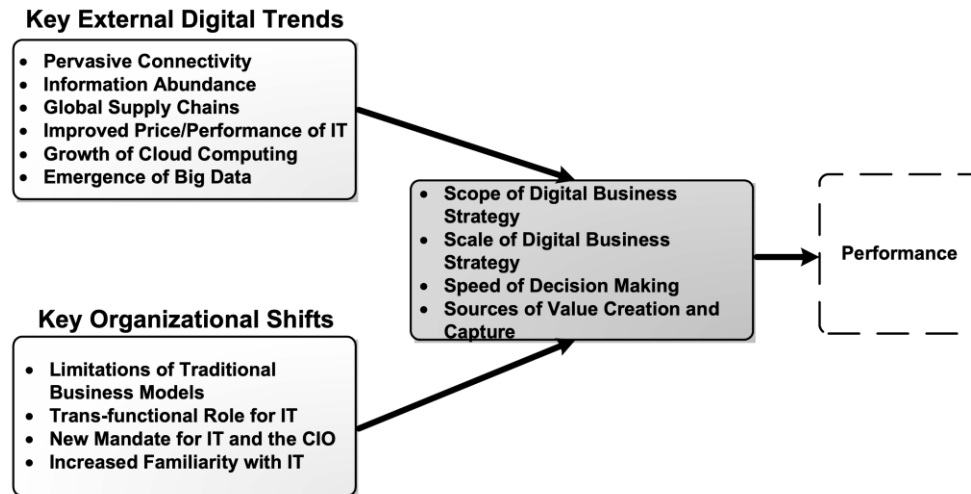
# Implications of Business IS Strategy Alignment



**Meta-Analysis by Gerow et al. (2014, p. 1178)**

*“Analyzing 30 years of alignment research, we examined whether IT-business strategic alignment leads to higher firm performance. We found the bulk of the extant evidence suggests **there is not much of an alignment paradox, which suggests alignment should lead to higher levels of performance.**”*

# Reminder: Digital Business Strategy

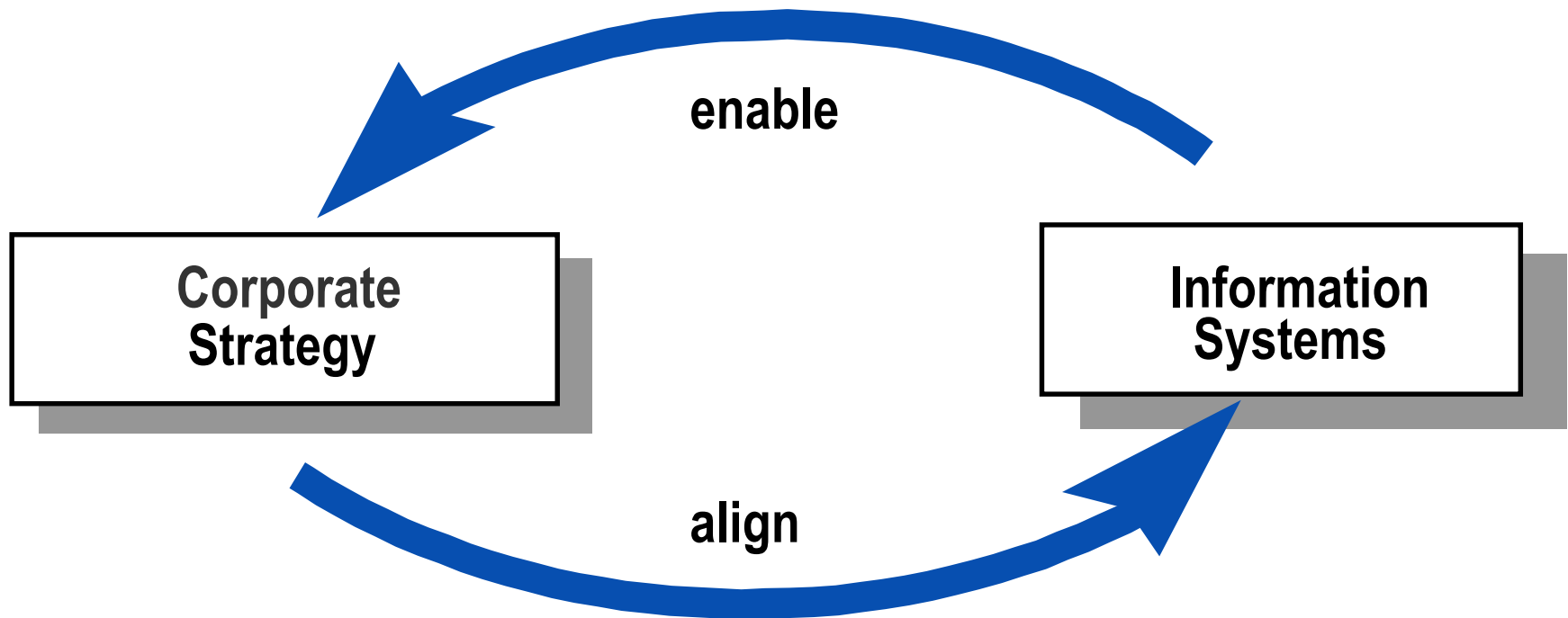


- Adapt business infrastructure to the new digital era
- Traditional business strategy reshaped by digital technology: modular, distributed, cross-functional
  - Embedded technology in products and services
  - Digital platforms
  - IT as a ubiquity
- From business-IT alignment to fusion of business and IT towards a digital business strategy

Bharadwaj et al. (2013)



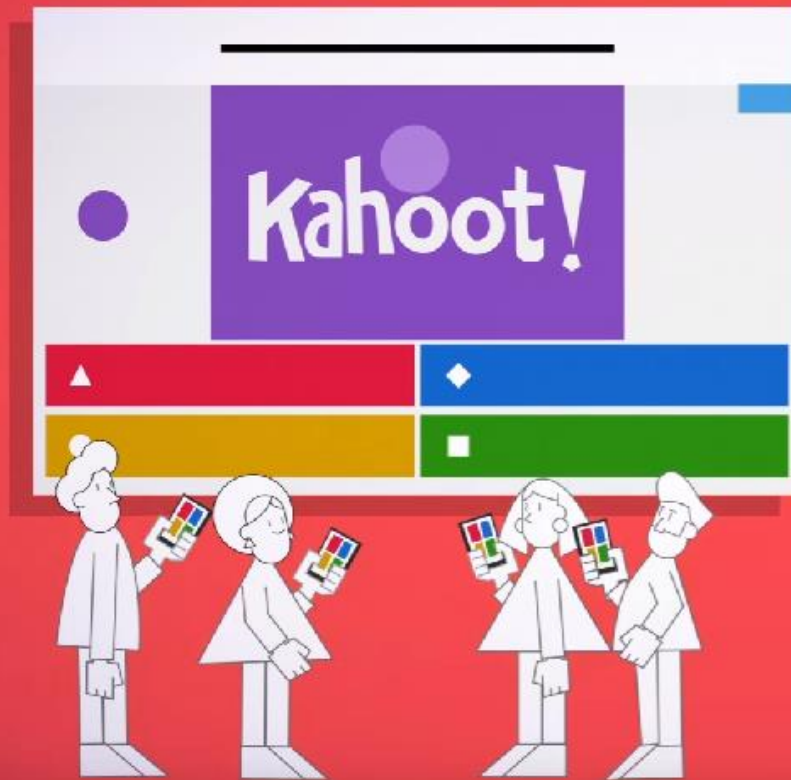
# Summary



Krcmar (2015), p. 396

# Quiz Time!

Go to [kahoot.it](https://kahoot.it)



# Core Literature: Krcmar, Informationsmanagement (2015)

1. Einleitung (pp.1-8)
2. Begriffe und Definitionen (pp.11-26)
3. Modellierung (pp. 31-78)
4. Aufgabe des Informationsmanagements: Informationsmanagement (pp. 85-109)
5. Aufgabe des Informationsmanagements: Management der Informationswirtschaft (pp. 113-165)
6. Aufgabe des Informationsmanagements: Management der Informationssysteme (pp. 173-302)
7. Aufgabe des Informationsmanagements: Management der Informations- und Kommunikationstechnik (pp. 315-385)
8. Führungsaufgaben des Informationsmanagements (pp. 393-578)  
8.1 Unternehmensstrategie und Informationsmanagement (pp. 396-427)
9. Referenzmodelle des Informationsmanagements (pp. 601-630)
10. Einsatzfelder und Herausforderungen des Informationsmanagements (pp. 633-753)
11. Fallstudie „Rockhaus AG“ (pp. 767-783)

# References and Additional Reading

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- Gerow, J. E., Grover, V., Thatcher, J. B., & Roth, P. L. (2014). Looking toward the future of IT-business strategic alignment through the past: A meta-analysis. *MIS quarterly*, 38(4), 1059-1085.
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