

# STRATEGY & DIGITAL

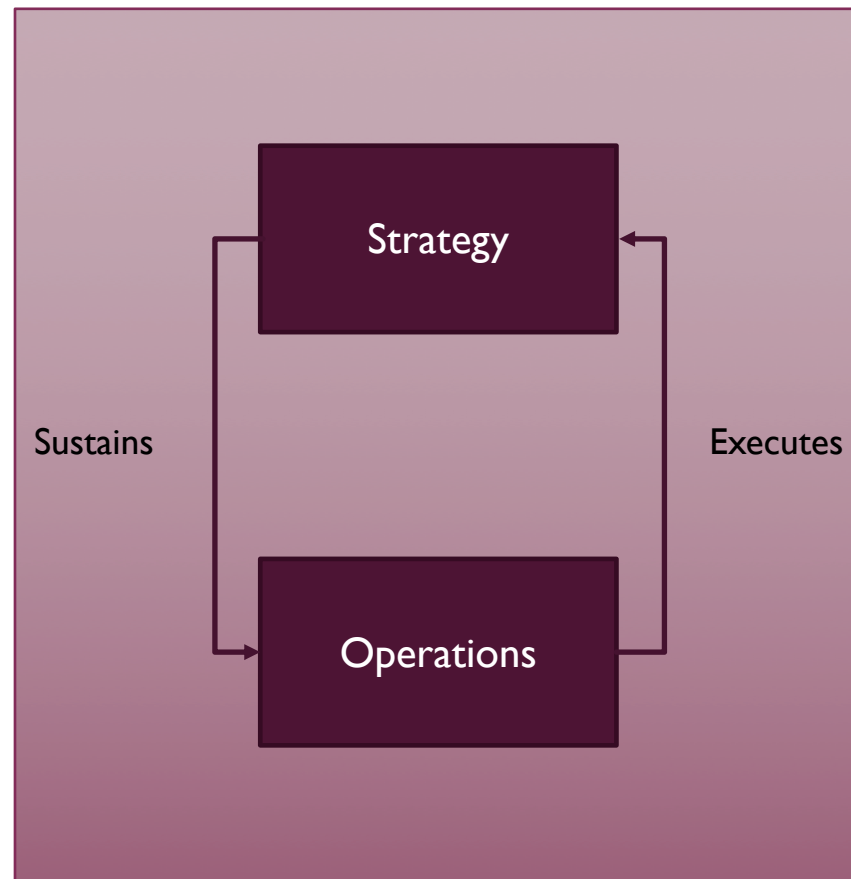
TOORAJ HELMI

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# STRATEGY AND OPERATIONS COMPLIMENT EACH OTHER

STRATEGY is about:

- What product to sell
- How to build it?
- To whom to sell it
- At what price
- With what performance
- How to repeat the sell



OPERATIONS

- Capture how work is done daily
- Defined using business processes
- Include three components: sales forecast, resource capacity, budgets (OP-EX, CAP-EX)

# WHAT DIFFERENT STRATEGIES EXISTS AND WHY?

## Stabilizing Strategy

Locally stabilizes a firms position among existing competition

Cannot be long-term reason to exist since change is inherent in and around us

## Disruptive Strategy

Locally reconstructs a new position within existing competition

Can produce short-term birth

## Reconstructive Strategy

Globally reconstructs a new position beyond the existing competition

Can produce continuous reasons to exist to adjust and introduce change

# WHAT TECHNOLOGY HAS TO SAY?

## Supporting a stabilizing strategy

### “Enterprise Architecture”

Automates repetitive tasks → reduces labor → reduces cost

Increases accuracy and speed of processes → more customers to be served at a higher quality → increases revenue and growth

Increases employee productivity → Reduces cost and increases revenue

Works along two dimensions integration or standardization

## Supporting a disruptive strategy

### "Tech Startup"

Great way to build platforms

Majority of the last decade startups are tech startups

## Supporting a reconstructive strategy

### “Digital Transformation”

As the fastest changing phenomenon around shapes what customers demand

Provides unique ways to create reconstructive strategies around customer, competition, data, innovation, and value

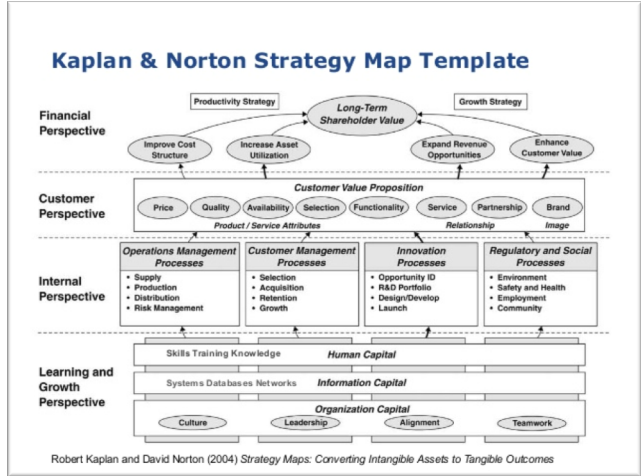


# STABILIZING STRATEGY & ENTERPRISE ARCHITECTURE

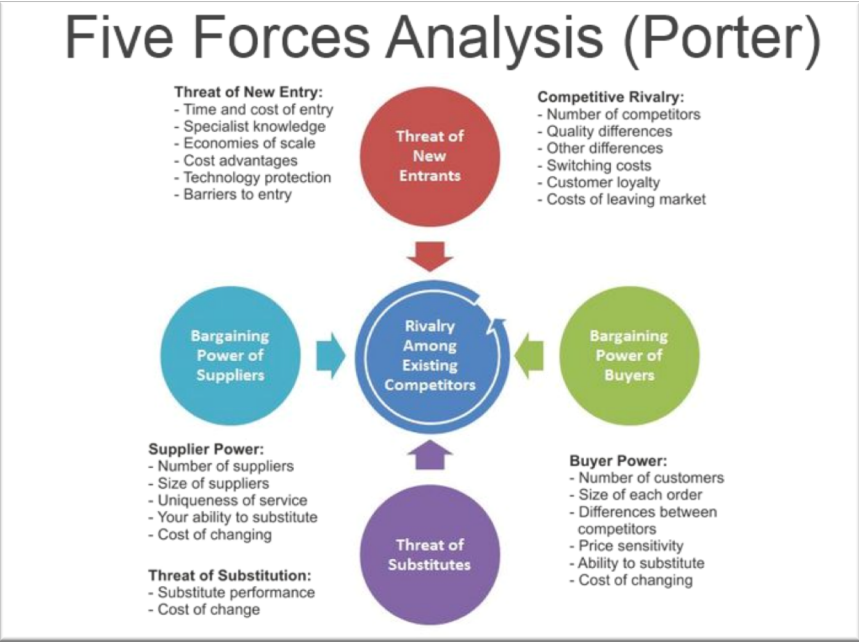
HOW TECHNOLOGY CAN HELP IMPLEMENT A STABILIZING STRATEGY USING STANDARDIZATION & INTEGRATION



### Kaplan & Norton Strategy Map Template



### Five Forces Analysis (Porter)



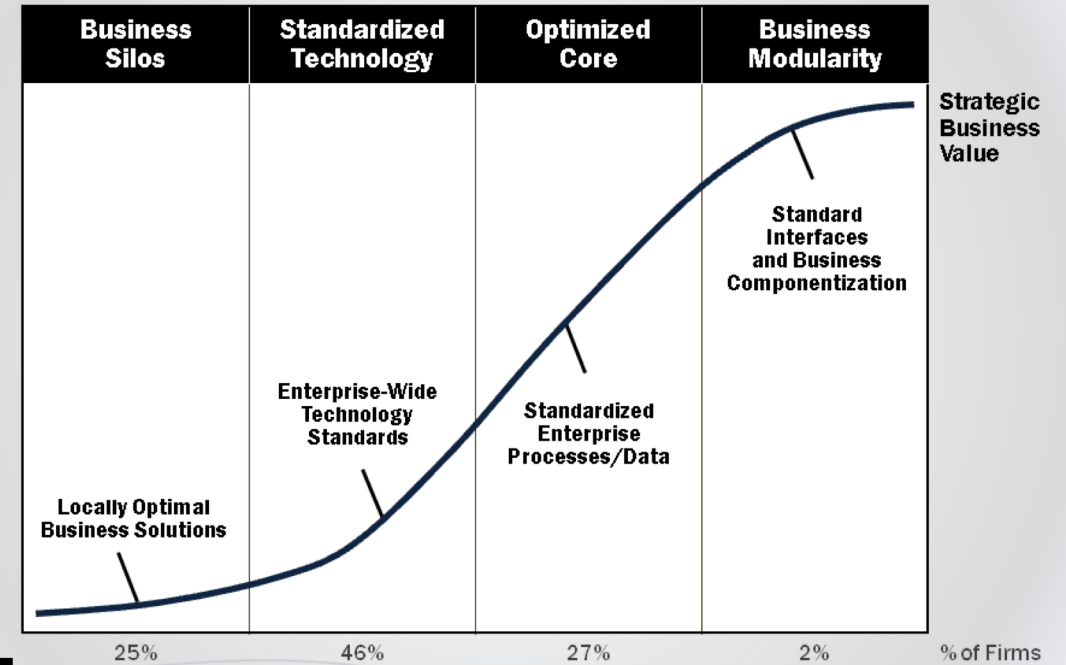
# STABILIZING STRATEGY

# FRAMEWORK: ENTERPRISE ARCHITECTURE

## Four operating models

<b>Business Process Integration</b>	<b>High</b>	<p><b>Coordination</b></p> <ul style="list-style-type: none"> <li>Unique business units with a need to know each other's transactions</li> <li><b>Examples:</b> Commonwealth Bank of Australia, MetLife, Aetna</li> <li><b>Key IT capability:</b> access to shared data, through standard technology interfaces</li> </ul>	<p><b>Unification</b></p> <ul style="list-style-type: none"> <li>Single business with global process standards and global data access</li> <li><b>Examples:</b> Southwest Airlines, Dow Chemical, UPS Package Delivery</li> <li><b>Key IT capability:</b> enterprise systems reinforcing standard processes and providing global data access</li> </ul>
	<b>Low</b>	<p><b>Diversification</b></p> <ul style="list-style-type: none"> <li>Independent business units with different customers and expertise</li> <li><b>Examples:</b> Johnson &amp; Johnson, Pacific Life, ING</li> <li><b>Key IT capability:</b> provide economies of scale without limiting independence</li> </ul>	<p><b>Replication</b></p> <ul style="list-style-type: none"> <li>Independent but similar business units sharing best practice</li> <li><b>Examples:</b> Marriott, 7-Eleven Japan, ING DIRECT</li> <li><b>Key IT capability:</b> provide standard infrastructure and application components for global efficiencies</li> </ul>
		<b>Low</b>	<b>High</b>
<b>Business Process Standardization</b>			

## Enterprise architecture builds agility over time



# TOOL I: CLOUD ENABLES A WELL-ARCHITECTED FRAMEWORK

## Operational Excellence

Monitor systems

Anticipate failure

Perform operations as code

## Security

Maintain the confidentiality and integrity of data

Protect information, systems, and assets

Identify security incidents

## Reliability

Scale horizontally to increase availability

Automatically recover from failure

Stop guessing capacity

## Performance Efficiency

Democratize advanced technologies

Go global in minutes

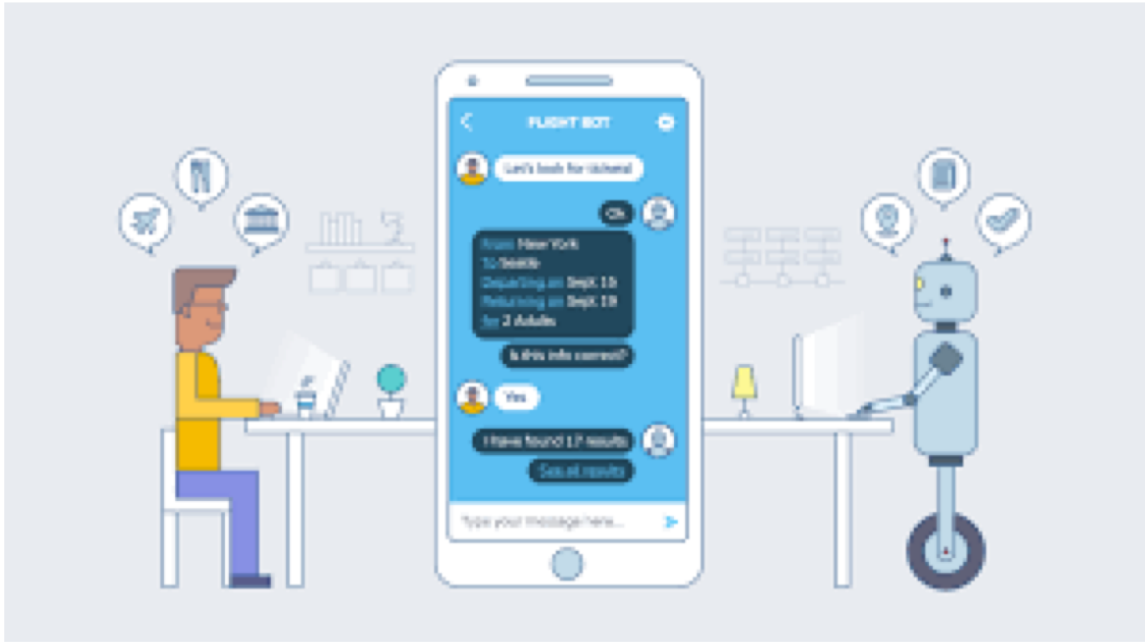
Experiment more often

## Cost Optimization

Only pay when using

Share unused capacity (PaaS)





# TOOL 2: DIGITAL WORKPLACE



## TOOL 3: CLOUD MIGRATION



# RECONSTRUCTIVE STRATEGY & DIGITAL TRANSFORMATION

HOW TECHNOLOGY CAN HELP RECONSTRUCTIVE STRATEGIES USING DIGITAL TRANSFORMATION



# PRODUCT DIMENSION

- For a given product (good or service), its continuum includes all other products that have an absolute cross elasticity of demand of  $> \alpha$ :  $|E_{A \sim B}| > \alpha$ .

Below table shows all cases. This row shows strategy domain for a movie theatre:

$E_{A \sim B} < -\alpha$	$ E_{A \sim B}  < \alpha$	$\alpha < E_{A \sim B} < \sim 100\%$	$E_{A \sim B} \sim 100\%$
Complement	Out of Domain	Alternative	Substitute (Industry)
Day care	Furniture	Nearby Restaurants	Netflix

- Product continuum contains complements, alternatives, and substitutes.
- Not easy to quantify  $\alpha$ . So we can use an industry matrix

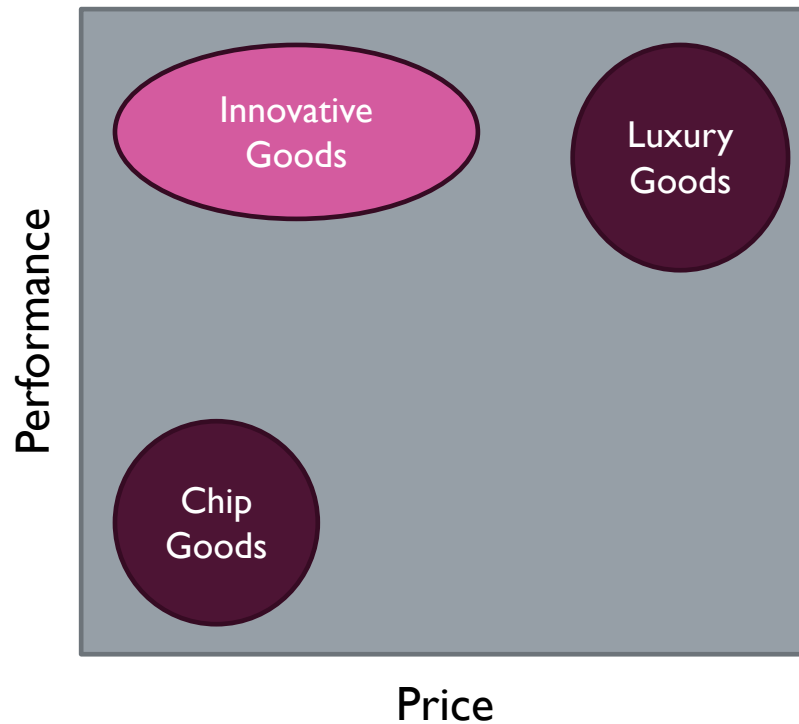
Cross elasticity of demand or cross-price elasticity of demand measures the responsiveness of the quantity demanded for a good to a change in the price of another good, ceteris paribus. It is measured as the percentage change in quantity demanded for the first good that occurs in response to a percentage change in price of the second good:

$$E_{A \sim B} = \frac{\Delta Q_A \%}{\Delta P_B \%}$$

For example, if, in response to a 10% increase in the price of fuel, the demand for new cars that are fuel inefficient decreased by 20%. A negative cross elasticity denotes two products that are complements, while a positive cross elasticity denotes two substitute products.

# PROPOSITION DIMENSION

- Specific performance and price points that a firm decides to sell its product: Toyota produces mid-size cars at a low price whereas Porsche produces sports cars at high prices.



## OTHER DIMENSIONS

- Value Dimension: set of activities that takes a product from its initial birth at a given firm to the hand of buyer.
  - Extended value Dimension : value dimension extended with upstream and downstream activities along that are accomplished by suppliers and buyers.
- Operations Dimension: operations that take place after the product is sold to keep it usable. E.g. maintenance.
- buyer Dimension: for a given product, includes all the buyer can receive value by purchasing the product. It also includes the intermediaries that could exist before the product is received by the end-customer. E.g. clinics can be intermediaries to provide a specific medication to a patient. Both clinic and patient belong to the buyer continuum.
- Demand Dimension: includes the first and all the possible subsequent opportunities to sell a product to a customer. E.g. a patient who comes for a visit to a clinic can go through multiple physician visits until he is completely healed rather than being seen by the first physician he made an appointment, given a prescription and let go.
- Time Dimension includes future time epochs that a firms can predict how is strategy should be set based on existing market trends.

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# Strategy Domain

Product  
Dimension

Value  
Dimension

Operations  
Dimension

Proposition  
Dimension

Buyer  
Dimension

Demand  
Dimension

Time  
Dimension

# FRAMEWORK: DIGITAL TRANSFORMATION

Transforming the entire firm: redefining customer value proposition, value-added processes, and people's working method

## Customers

- Dynamic Networks
- Economies of Value
- Inspirational marketing
- Key Influencers

## Competition

- Co-opetition
- Fluid Industries
- Platforms

## Data

- Generated Continuously
- Unstructured Data
- Produce Information

## Innovation

- Experimentation
- Problem vs Solution
- MVP & Iterations

## Value

- Evolve vs Optimize
- Not industry-specific
- Futuristic Value Prop





## APPROACH I: PLATFORMS

## APPROACH 2 MICROSERVICES ORGANIZATION



## APPROACH 3 OMNICHANNEL





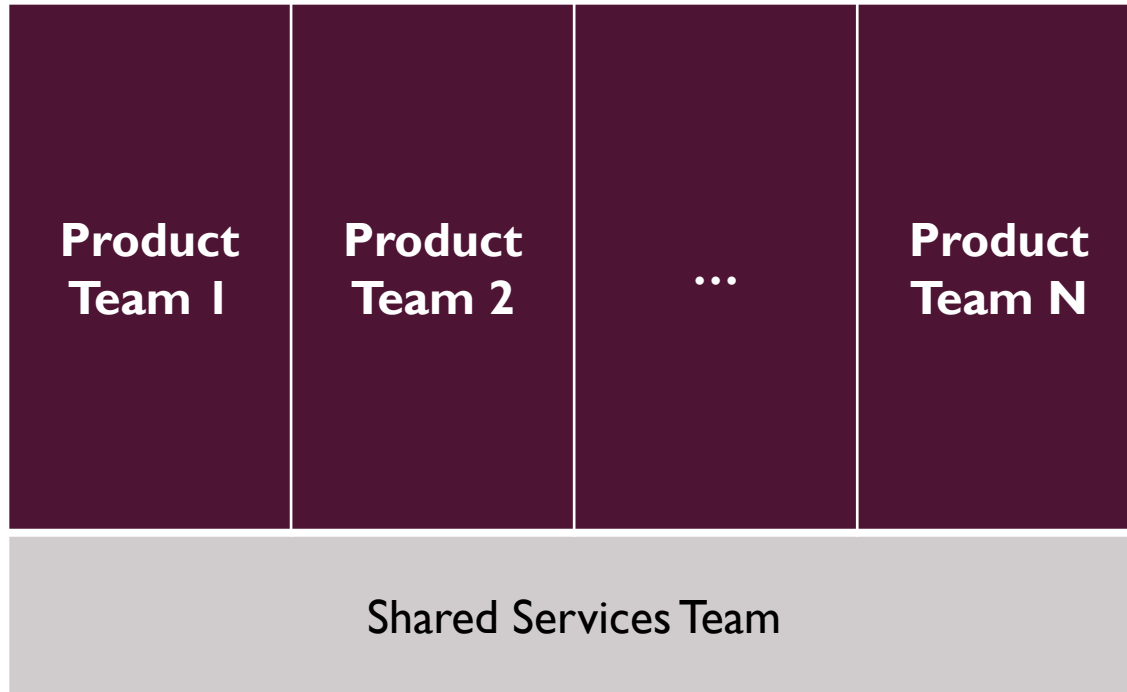
# TRANSITION FROM TRADITIONAL TO DIGITAL IT

FROM PRODUCT TEAMS TO SERVICE TEAMS

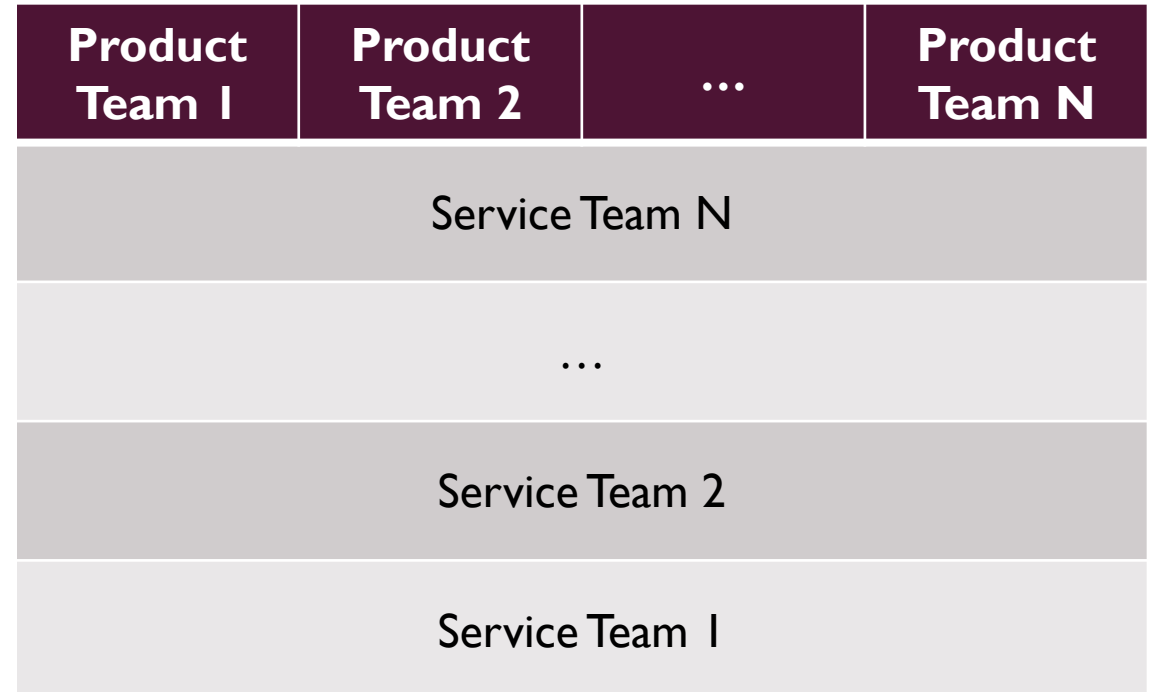


# TRADITIONAL VS DIGITAL IT

## Traditional IT Organization



## Digital IT Organization



# DIGITALIZATION PHASES

