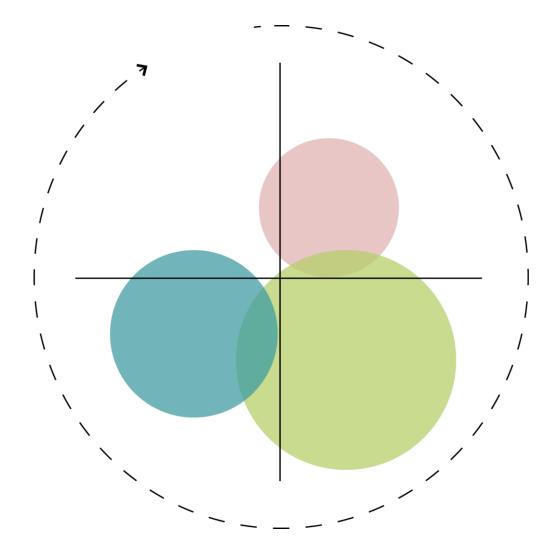
# EXPANDING OPPORTUNITIES FOR PHILIPPINE ARCHITECTS THROUGH CREM

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Delft University Of Technology
Faculty Of Architecture And The Built Environment
Track of Management in the Built Environment



#### Presentation Flow

Introduction

Research Questions

Methodology

Literature Review

**Empirical Research** 

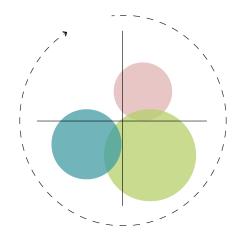
Operational Research

Findings & Recommendation

Conclusion







Introduction



# Architects cope with crisis through optimism







() - December 6, 2008 - 12:00am

The best way to cope with the crisis would be to hold on to positive prospects, or so says the members of the United Architects of the Philippines (UAP).

"Because of the recession, some developers are on a wait-and-see attitude and most of them are holding off their projects despite having a budget, and eventually we are affected," UAP regional district C-1 director Alan G. Choachuy said.

# How COVID-19 will impact ASEAN: Deep recessions and a weak recovery



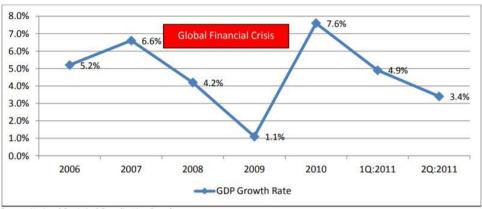
Special

May 19, 2020, by Raphie Hayat

#### I. Overview of the Macroeconomy and the Construction Industry

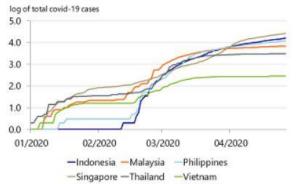
#### a. Key Macroeconomic Indicators

Figure 1: GDP year-on-year Growth Rates



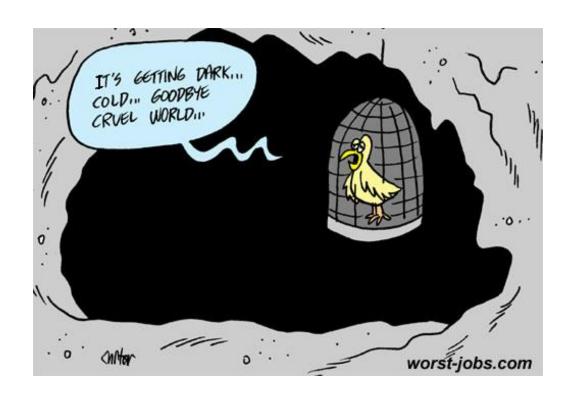
Source: National Statistical Coordination Board

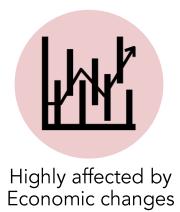
Figure 1: Curves are flattening in some countries, but rising in others



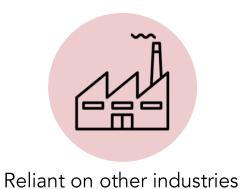
Source: Macrobond, WHO

"Architects, it is said, are to the economy what canaries once were to coal mines, an early warning system".



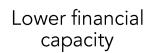














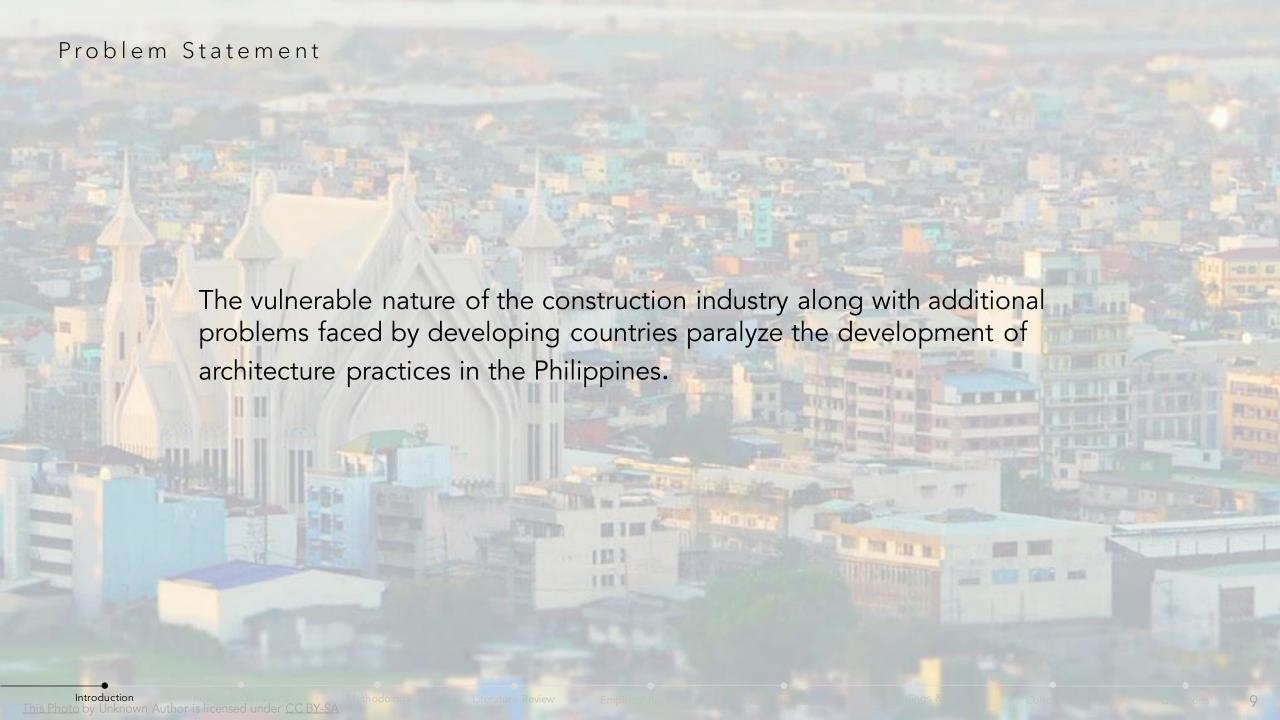
Lack of expertise



Poor understanding of international & foreign market



Weak political and governance systems



#### Goals



1. Expand the business opportunities of Philippine architects through adapting the business model transition towards architecture-CREM companies done by Dutch architects.



2. Examine how Dutch architects have future-proofed and grown their practices through CREM



3. Define the transition of business models from architecture to architecture-CREM to provide a sequential procedure of how the transition occurs.

#### Scientific Significance



Contributes to the limited knowledge on the development of business strategies and models for architecture companies



Starting point for the scientific discussion and documentation of architectural business management in the Philippines and Southeast Asia

## Societal Significance



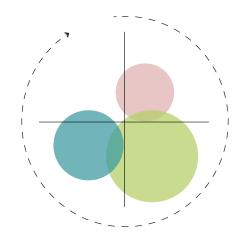
Provide insight and new possibilities to firms who need to adjust their existing models and for start-up companies in the Dutch and Philippine contexts.



This thesis is relevant to South-East Asian architects, particularly Filipino Architects, as it introduces fundamental business management concept



This introduces the idea of CREM activities as a set of business opportunities and new revenue streams in the Philippine setting.



Research Questions & Methodology

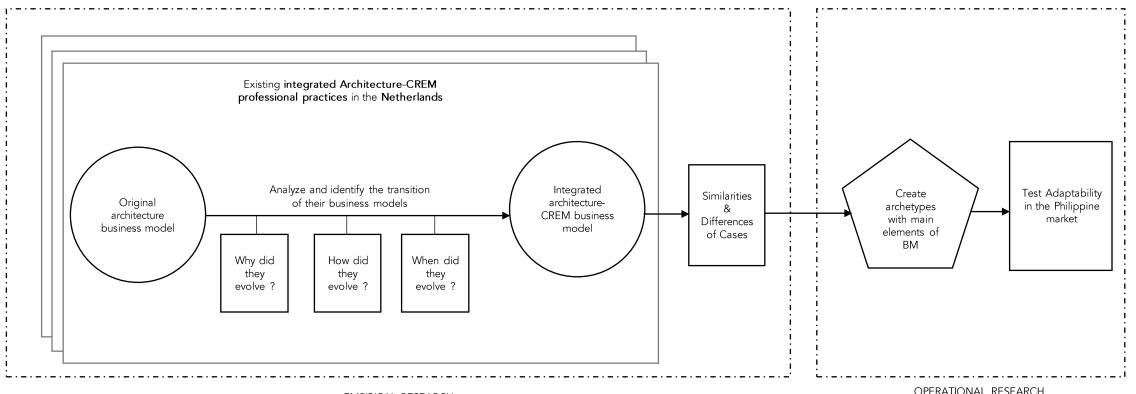


#### Sub-Research Questions:

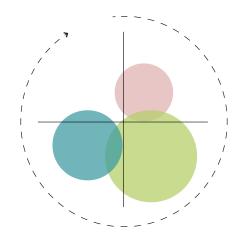
"To what extent can architects in the Philippines replicate the architecture-CREM models created by Dutch Architects in order to create future-proof architectural practices?"

- **SQ1:** What real-estate management services have Dutch architects integrated into their businesses?
- SQ2: How did Dutch architects transition their original business models towards the integration of real-estate management services?
- **SQ3**: How beneficial was this endeavor to their professional practice?
- SQ4: How replicable are the architecture-CREM business models of the Dutch architects in the Philippine context?

#### Conceptual Diagram



OPERATIONAL RESEARCH EMPIRICAL RESEARCH



Literature Review



# The Business Model Canvas

· problem solving ·nuage - testing other I'm bored o platform - website nature deficit disorder

**BUSINESS MODELS** 

numan resources **BUSINESS MODEL CANVAS (BMC)** 

Server

NGOS

place intellectual resources

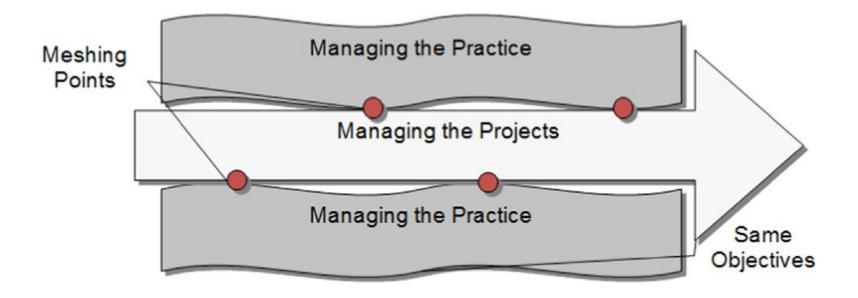
Sy our database builder? christal resources physical resources

Tour servers

economies of solute scale

**CORPORATE REAL ESTATE MANAGEMENT (CREM)** 

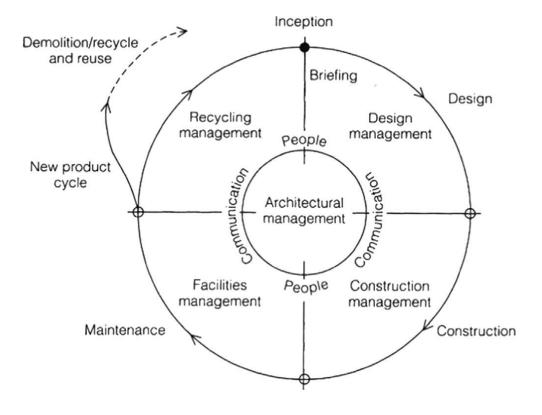
#### Architectural Management (AM)



Graphical interpretation of Emmitt's (1999) AM definition

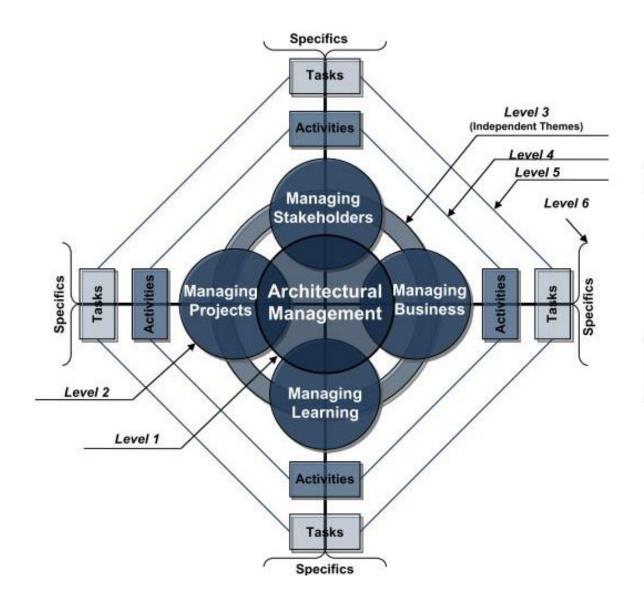
(Alharbi et al., 2015, p.2).

#### Architectural Management (AM)

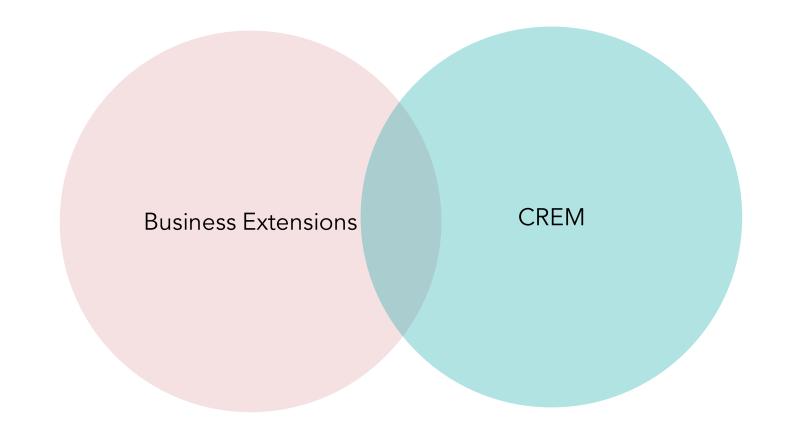


The Position of AM within the Project Lifecycle

by Emmitt (1999) (Alharbi et al.,2015, p.2).



	Managing the Business	Managing the Projects	Managing the Stakeholders	Managing Learning
	Organisational Structure	Design Management	Stakeholder Identification	Business Realisation
-	Financial Management	Construction Management	Stakeholder Involvement	Multidisciplinary Collaboration
4	Marketing & Sales Management	Quality Management	Value Management	Academic Staff
<u>e</u>	Ethical & Legal Issues	Property Development	Managing Social Responsibility	Industry Feedback
Level	Managing IT Utilisation	Managing Investments	Conflict Management	Admission & Graduation Issues
70000	Business Planning	Project Management	Stakeholder Analysis	Management Inclusion
Activities	Human Resource Management	Facilities Management	Requirements Management	Simulation of Reality
듄	Managing Practice Growth	Construction Supervision	Managing Sustainability	Professional Bodies'
¥.	Managing the Working Env.	Engineering Consultancy	Educating & Guarding Clients	CPDs
	Knowledge Management	Other Business Ventures	Public Relations Management	Analogical Comparisons



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Corporate Real Estate Management

"The management of buildings and parcels of land at the disposal of private and public organizations which are not primarily in the real estate business."

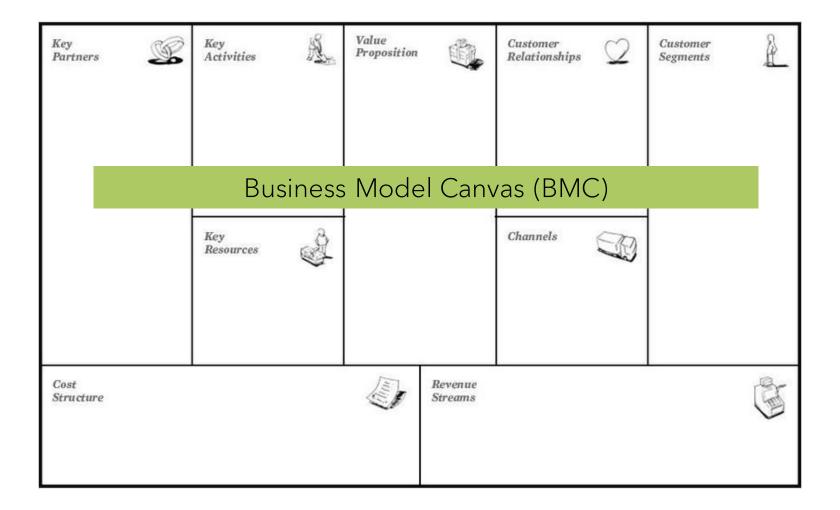
( Haynes et al., 2017).



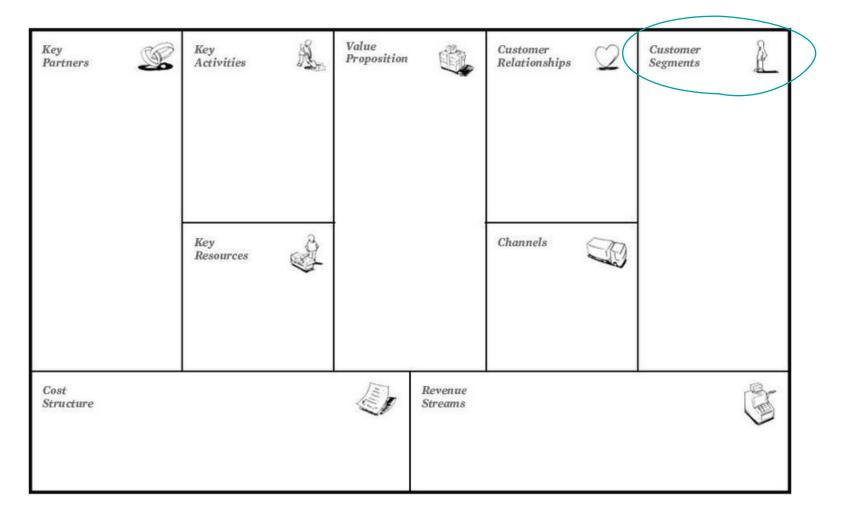
**Business Models** 

"the rationale of how an organization creates, delivers and captures value" (Osterwalder et al., 2010).

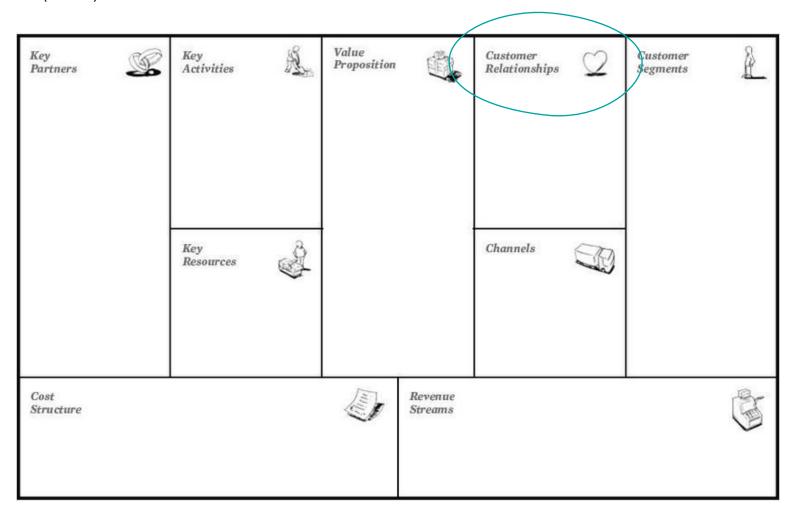
(Osterwalder et al., 2010).



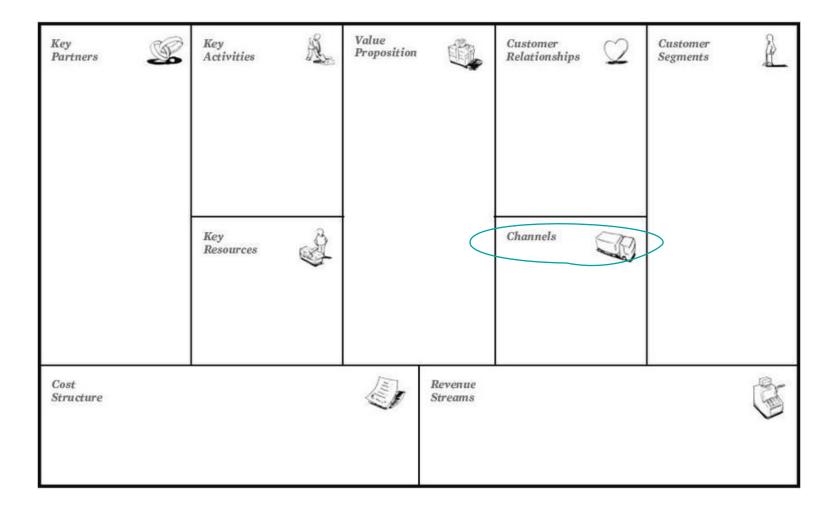




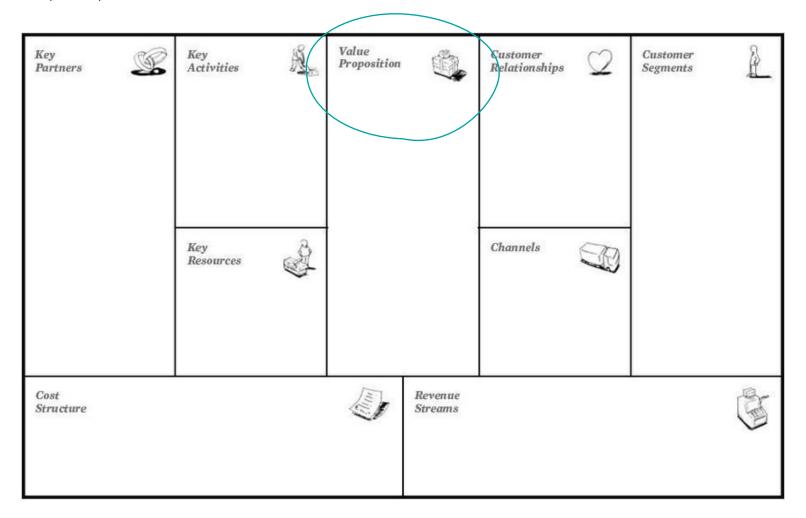




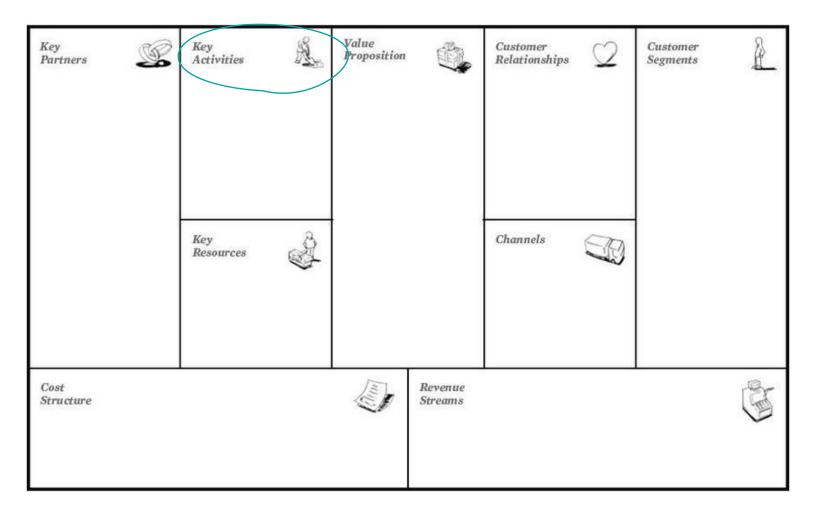


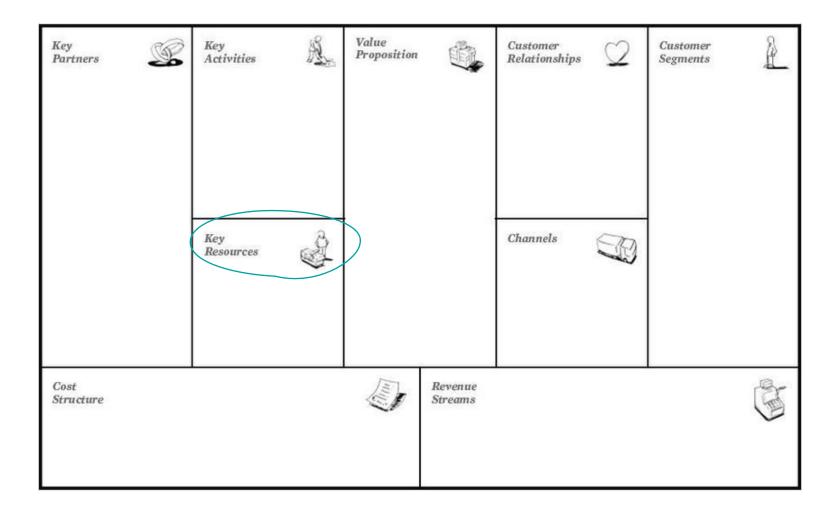




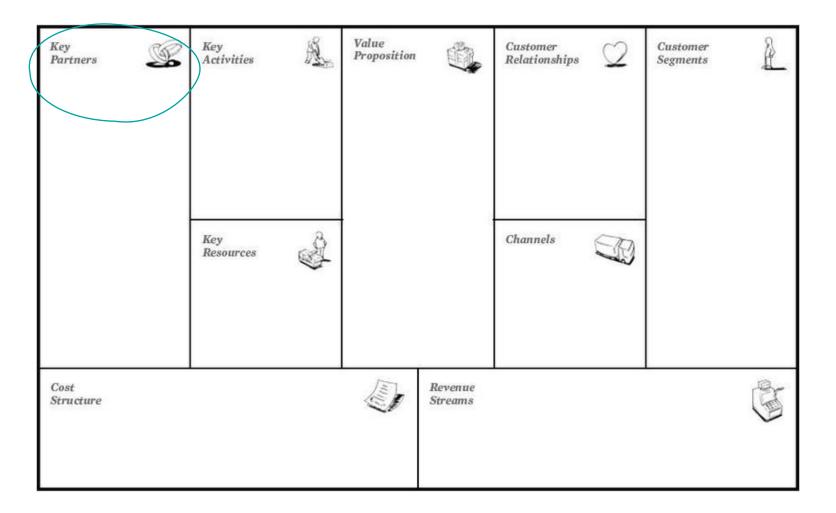




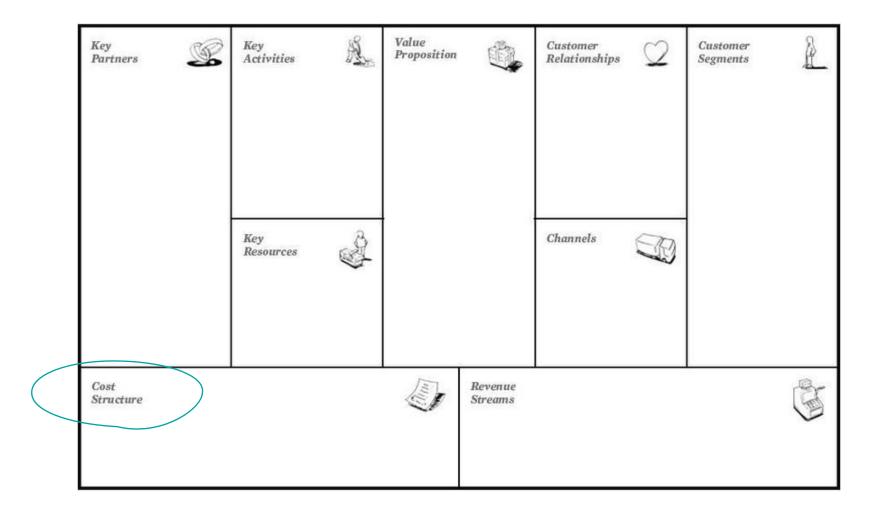




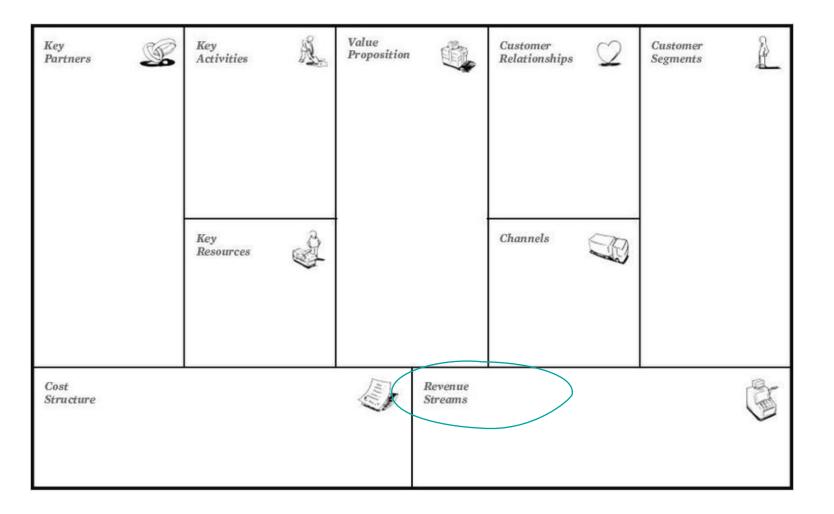










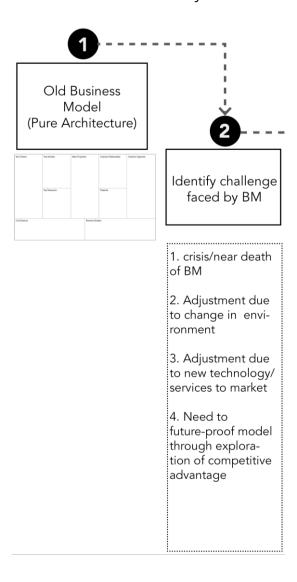




## Business Model Framework Analysis

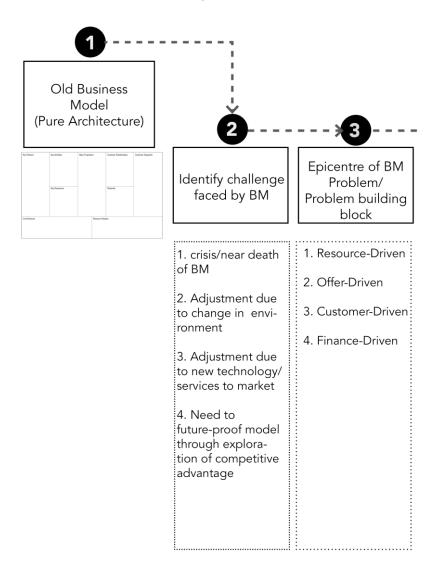




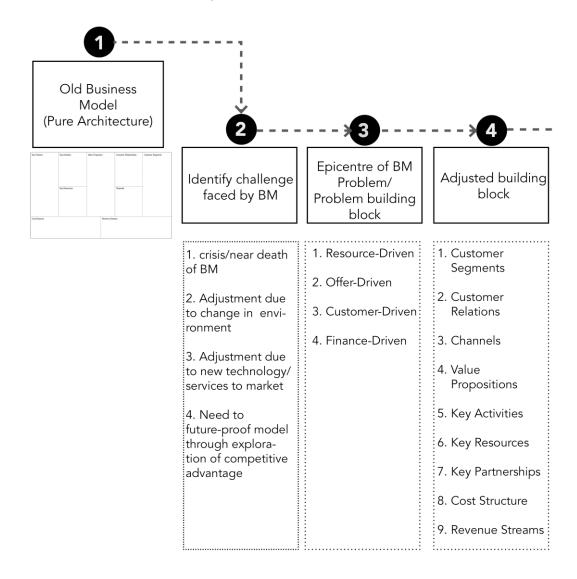


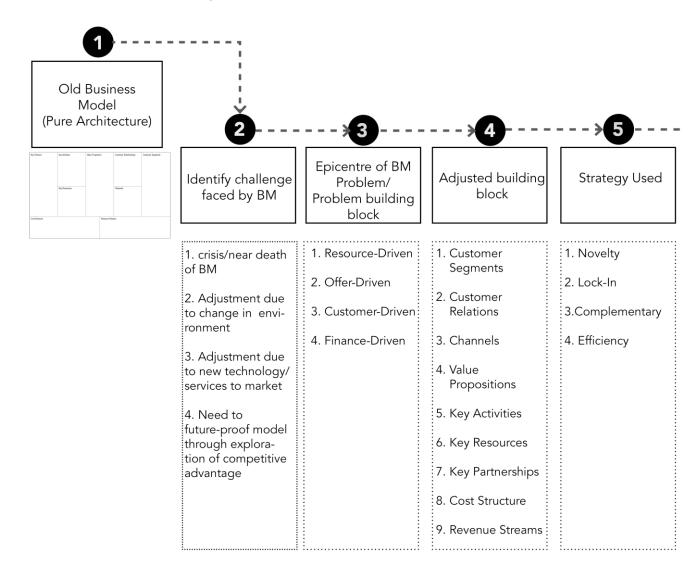


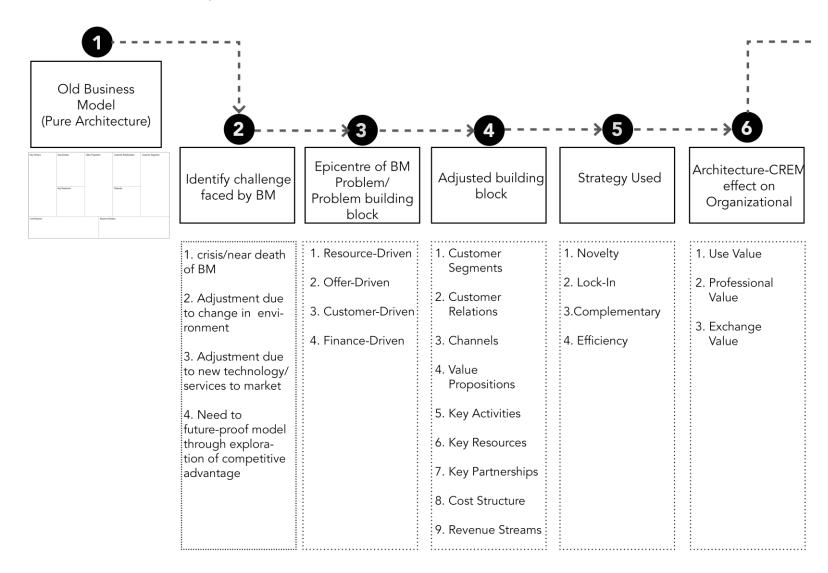
Research Questions

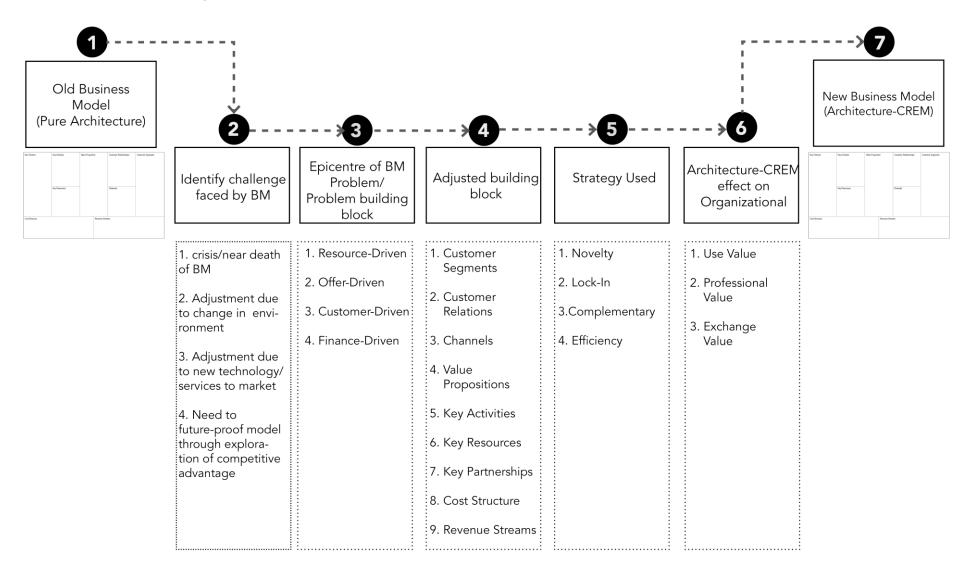






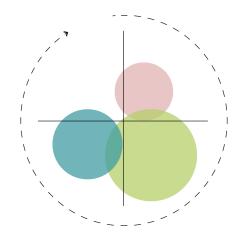








Info overload!



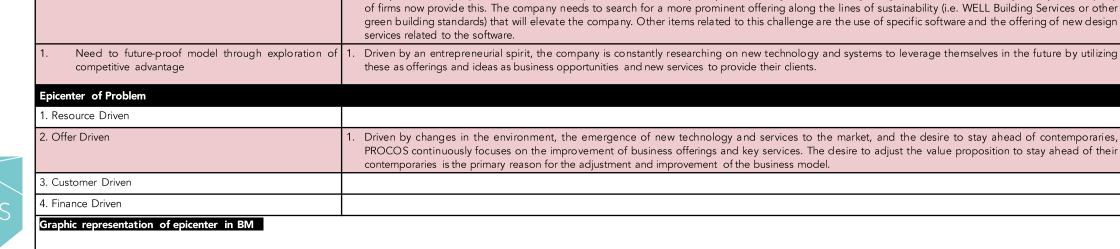
Empirical Research







Introduction





Challenge BM faces

Crisis/nearth-death experience of BM

Adjustment due to change in the environment

Adjustment due to new technology/ services to market 1

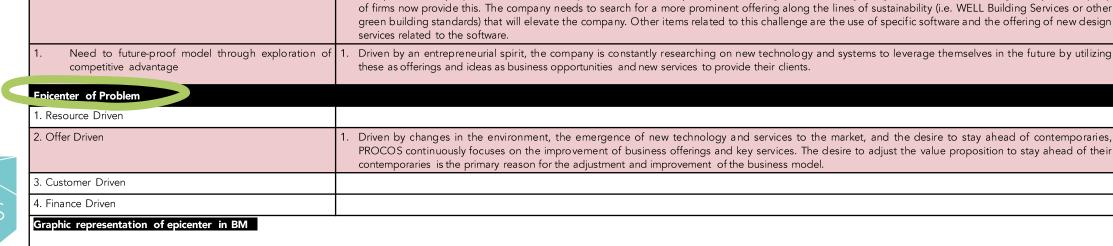
Type of Strategy	
1. Novelty	
1. Lock-in	1. The company focuses on providing the entire range of architectural and CREM services. The company is currently comprised of architects, designers, and IT specialists that focus on the design and development and of in-house programs. The facility management specializations are outsourced to their network of professionals. The company acts as a generalist who begins the design process as a space consultant and after the design is completed, connects the owner to different FM experts which they still oversee and monitor. The package they deliver to clients is a holistic and fully integrated design and CREM scope.
3. Complementary	
4. Efficiency	

Due to the nature of their clients (large mulit-national corporations), the services offered by PROCOS are largely influenced by larger work issues. Some examples of these are the changing EU sustainability requirements for construction, globalization, and COVID-19. They are constantly looking at the changing

Like the shifting environment, the changes brought about by the latest technology and processes drive what services PROCOS provides its clients. For

example, the company has made sustainability and wellness a core principle in its designs since the beginning. However, this is no longer unique as majority

market and trends to identify how they can better serve their clients by addressing changing requirements that are brought by shifting environments.





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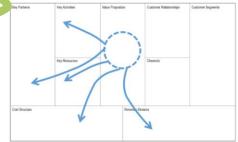
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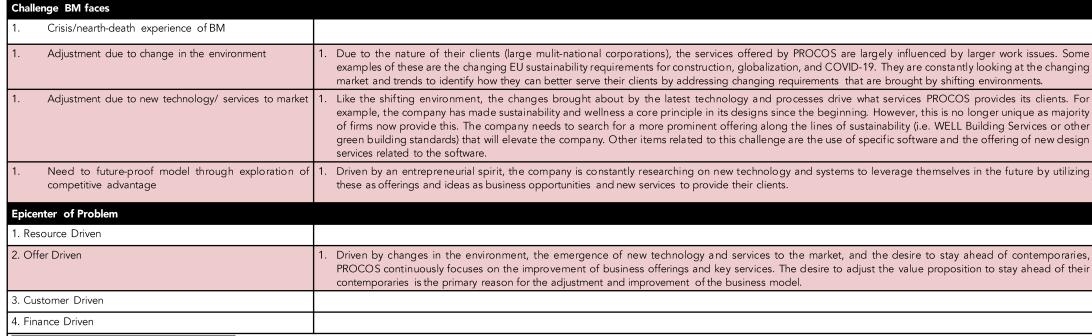
market and trends to identify how they can better serve their clients by addressing changing requirements that are brought by shifting environments.



Chal	enge BM faces	
1.	Crisis/nearth-death experience of BM	
1.	Adjustment due to change in the environment	1. Due to the nature of their clients (large mulit-national corporations), the services offered by PROCOS are largely influenced by larger work issues. Some examples of these are the changing EU sustainability requirements for construction, globalization, and COVID-19. They are constantly looking at the changing market and trends to identify how they can better serve their clients by addressing changing requirements that are brought by shifting environments.
1.	Adjustment due to new technology/ services to market	1. Like the shifting environment, the changes brought about by the latest technology and processes drive what services PROCOS provides its clients. Fo example, the company has made sustainability and wellness a core principle in its designs since the beginning. However, this is no longer unique as majority of firms now provide this. The company needs to search for a more prominent offering along the lines of sustainability (i.e. WELL Building Services or other green building standards) that will elevate the company. Other items related to this challenge are the use of specific software and the offering of new design services related to the software.
1.	Need to future-proof model through exploration of competitive advantage	1. Driven by an entrepreneurial spirit, the company is constantly researching on new technology and systems to leverage themselves in the future by utilizing these as offerings and ideas as business opportunities and new services to provide their clients.
Epicenter of Problem		
1. Re	source Driven	
2. O	ffer Driven	1. Driven by changes in the environment, the emergence of new technology and services to the market, and the desire to stay ahead of contemporaries PROCOS continuously focuses on the improvement of business offerings and key services. The desire to adjust the value proposition to stay ahead of their contemporaries is the primary reason for the adjustment and improvement of the business model.
3. Customer Driven		
4 E:		
Gra	whic representation of epicenter in BM	ee Value Prognation Castomer Relationships Castomer Regiments



Type of Strategy	egy		
1. Novelty			
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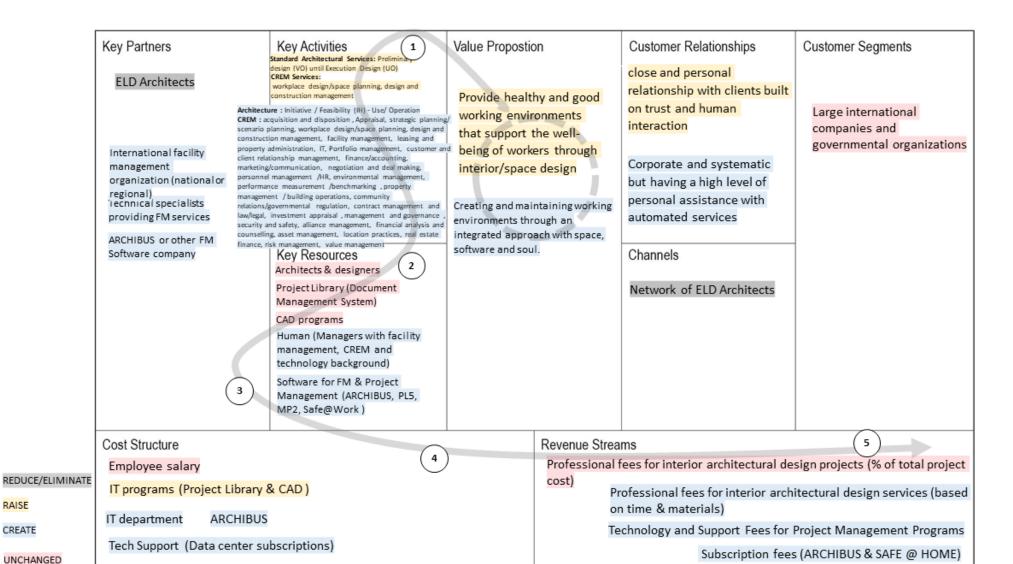
#### Graphic representation of epicenter in BM

Type of Strategy			
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4. Efficiency			



1. Old Value Proposition		1. New Value Proposition
Provide healthy and good working environments that	From an interior design company under ELD,	Creating and maintaining working environments
support the well-being of workers through	, , ,	through an integrated approach with space,
interior/space design.	As PROCOS expanded, new managers with	software, and soul.
	backgrounds in facility management,	
	engineering, and technology entered the	
	company bringing new knowledge which led to	
	new services and collaboration with ARCHIBUS.	
	ARCHIBUS technology to answer questions of	
	their clients regarding the sizes of space their	
	company was occupying which evolved to	
	furniture and equipment management, and later	
	Fm.	





Introduction

Research Questions

RAISE

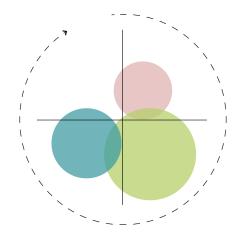
CREATE

Methodology

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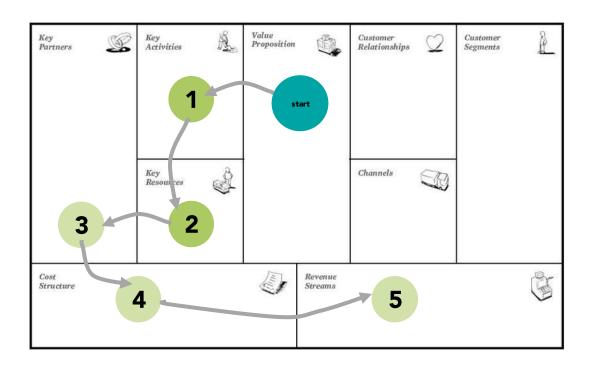


Empirical Findings

## **Empirical Findings**

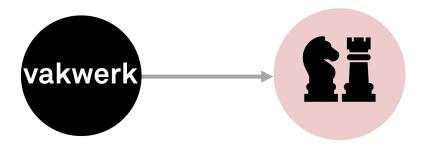
1. All three cases have the same sequence of updating the blocks for the first two blocks:

Epicenter of value proposition  $\rightarrow$  key activities  $\rightarrow$  key resources

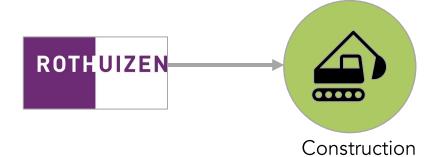


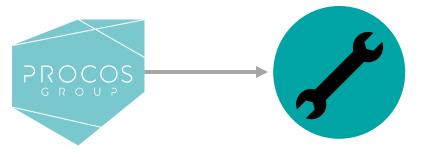
## **Empirical Findings**

2. Each company has a specific "theme" focus for their CREM activities.



Predesign & Strategy





Facility maintenance

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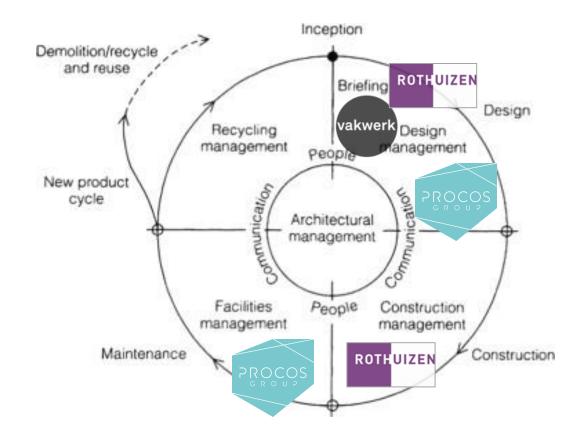
Findings & Recommendation

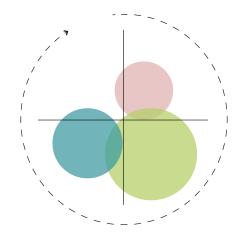
Conclusio

Question

## **Empirical Findings**

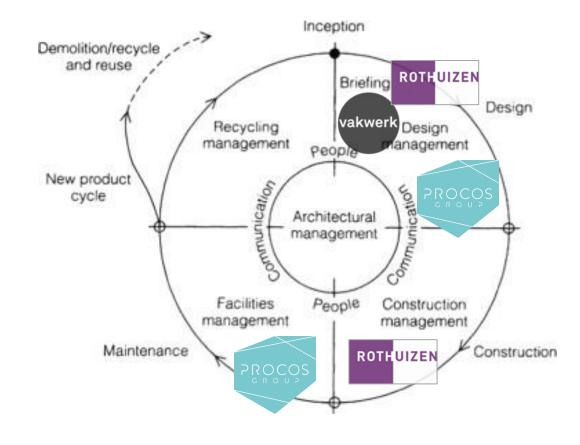
2. locate their thematic focus on different portions of the lifecycle





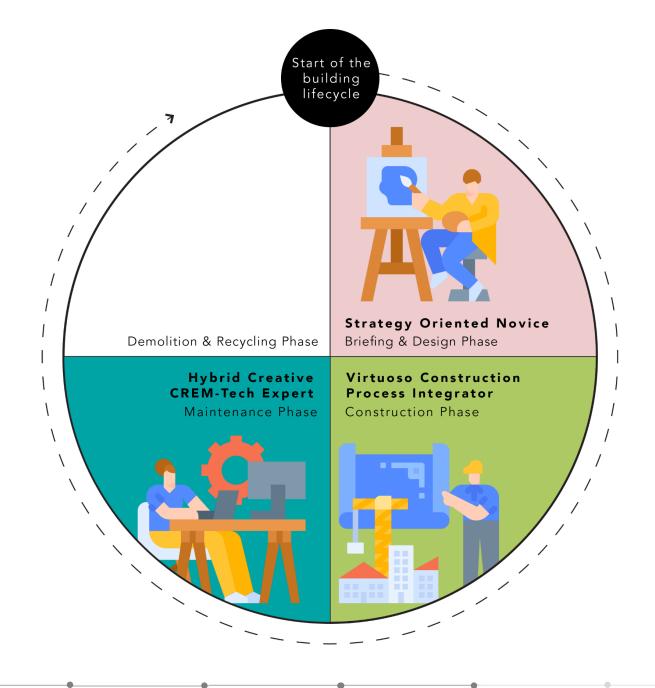
# Operational Research





"a typical or perfect example of a particular kind of person of thing"

(Oxford Advanced Learner's Dictionary, n.d.)



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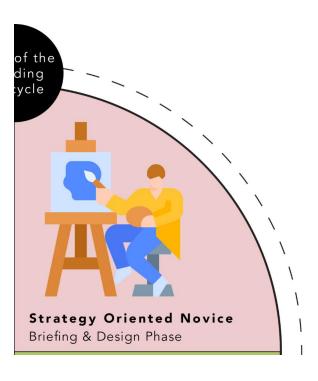
Empirical Research

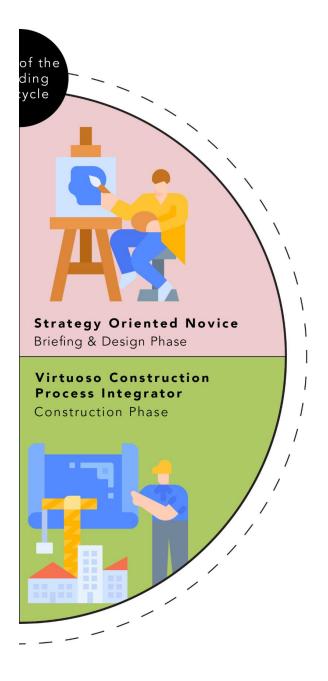
Operational Research

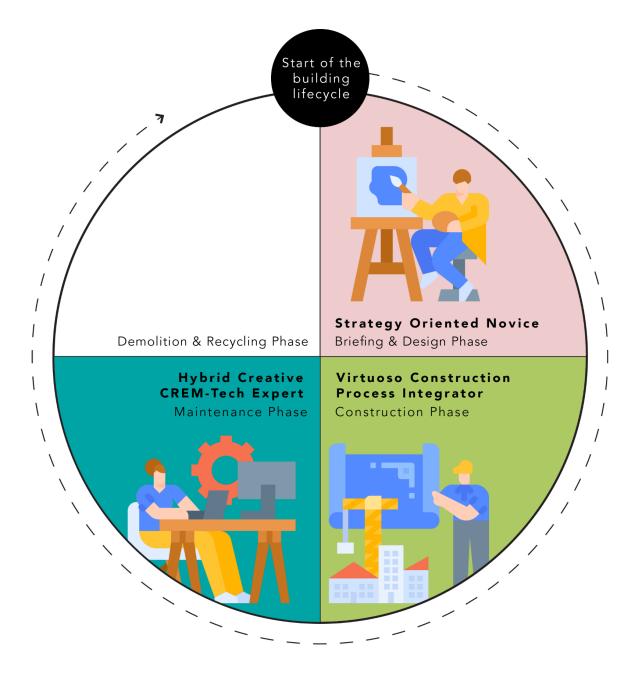
Findings & Recommendation

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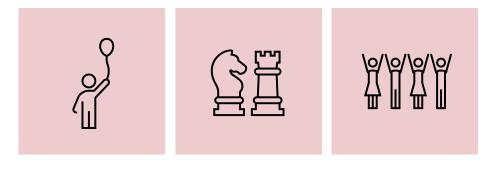












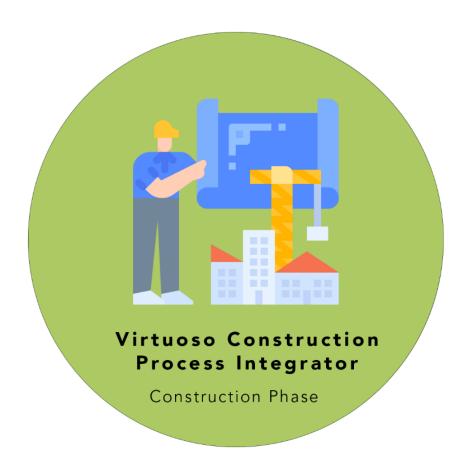
**Complimentary Strategy** Focuses on bundling pre-design services and design in-depth services

Low level of CREM Appraisal, strategic planning/ scenario planning, design/space design, design and construction management, project management/development, customer, and client relationship management,



Strategies and designs for the built environment that are created through an indepth process-oriented approach centered on user behavior, business awareness, and entrepreneurial innovation



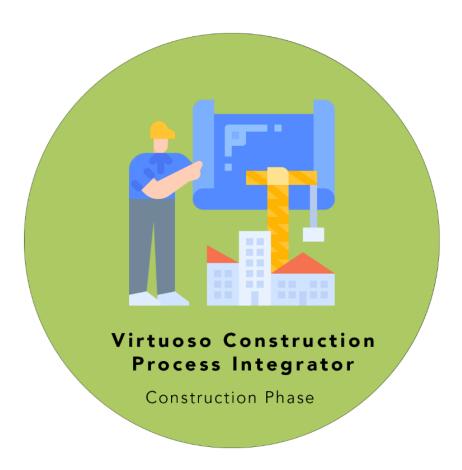




**Complimentary Strategy** improve the standards and construction quality of design and engineering through by integrating a construction management or "system integration" method to ensure the quality, cost, and schedule of construction is met.

**High level (16 out of 31)** with a focus on construction and project management.





"ensures that design solutions are within the client's boundaries of time, cost, and quality with increased levels of innovation through shorter construction supply chains."











Lock-In Strategy Full architectural design services and CREM activities with a focus on workplace design, facility management, and technology through a mix of inhouse capabilities & third-party professionals

**High level** (30 out of 31) with a focus on facility management.



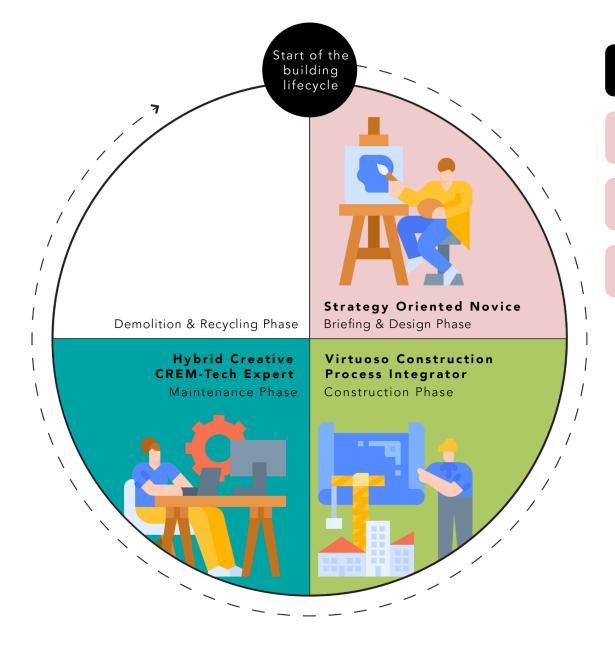


"Design and maintain efficient and enjoyable working environments that are founded on people, principles, business processes, and technology.





#### Adaptability in PH



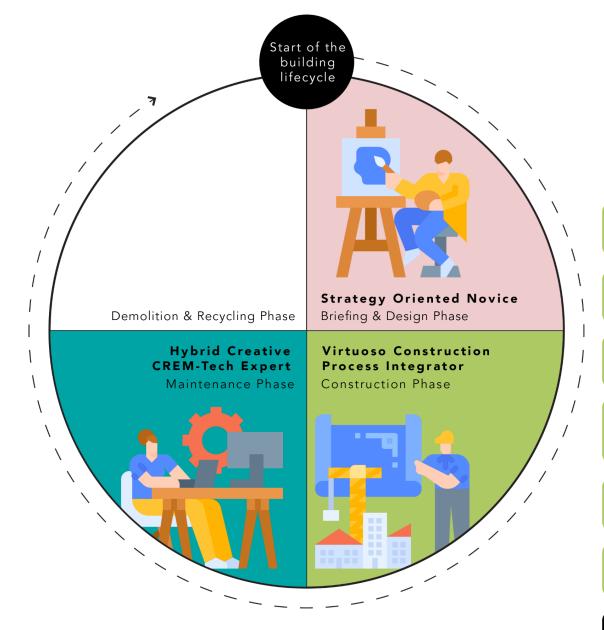
# Difficult to adapt

Real estate finance & business modeling is not being used

Low level of maturity in market

Added-value Service

#### Adaptability in PH



Design & Construction Integration in 1 firm= possible integrity issues

Lower risks but focusing on interior or small projects in higher numbers

High risks but high rewards

Potentially lucrative (% of construction cost)- easy to explain based on savings

Skills required can be learned (scheduling & management)

Demand for professional construction management services

Most adaptable for smallmedium of PH architects

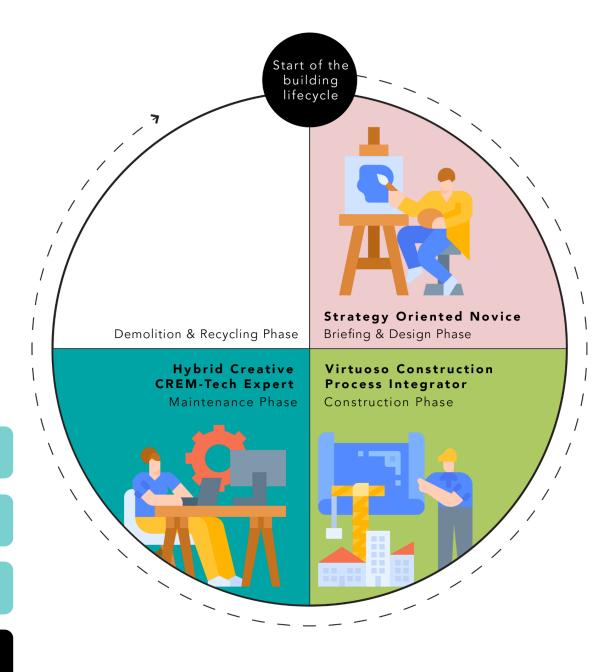
#### Adaptability in PH

Unique clientele

Requires high level of financial resources (tech & research)

Most unique offering

Possibility for large companies with a lot of financial resources





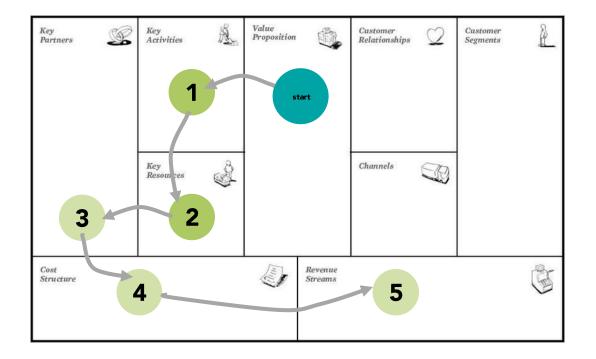
Dutch and Philippine architects are driven to innovate their existing business models due to **all four** challenges



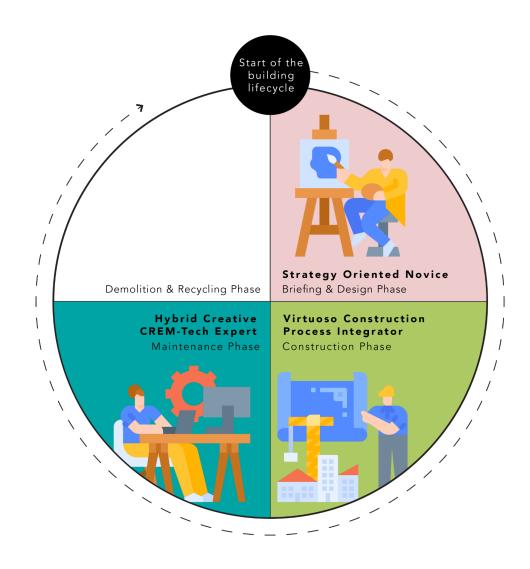


Architects can use the sequence identified to update their business models in a systematic manner

- 1.Key Activities
- 2. Key Resource
- 3. Key Partners
- 4. Cost Structure
- 5. Revenue Streams.

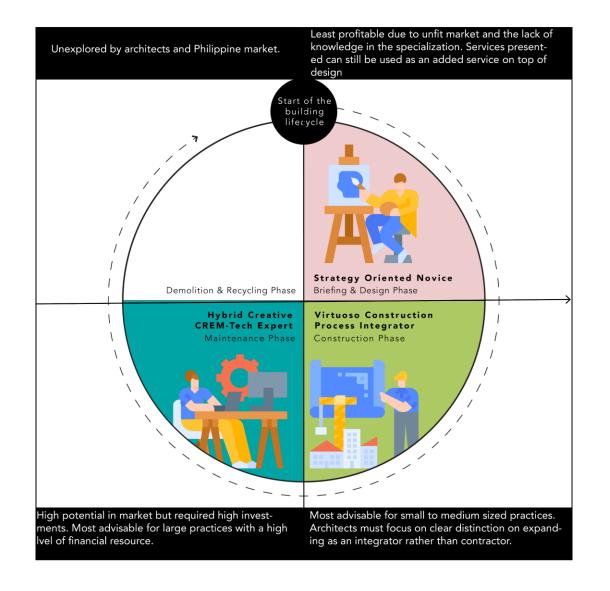


Discovery of 3 archetypes of architecture-CREM companies in the Dutch Market.



Virtuoso Construction Process Integrator is most adaptable.

Hybrid Creative CREM-Tech Expert Is also adaptable for larger firms.

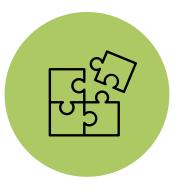


"enlightened architecture-CREM" professional is the main instigator of change within her co-professionals, clients and academe.



Recommendation for Practice

#### **Understand the Business Model and Reasons for Innovation**



Introduction Research Questions

Methodology

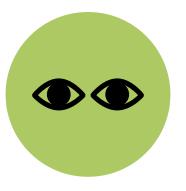
Literature Review

Empirical Research

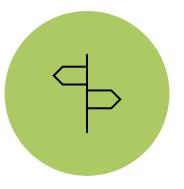
Operational Research

Findings & Recommendation

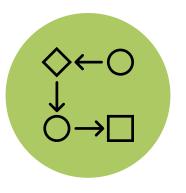
## Awareness and Harnessing the Potential Opportunities Brought by CREM



## Choice of CREM activities: Identifying which Quadrant is Most Suitable



## Integration: Point by point step of integration.





1. United Kingdom and the United States presents themselves as viable research studies due to the growing popularity and necessity of CREM in these countries.



2. Other architecture companies to provide a more unique plethora of analysis and new "routes" for the business transformation, identifying more options for architects to improve their businesses.



3. Adaptability of archetypes in other Southeast Asian nations

# "We are called to be architects of the future, not its victims."

R Buckminster Fuller

Thank you!