# UNIVERSIDAD PANAMERICANA GONSULTIG

# **AGENDA**

- I. FACTS & PROBLEMS
- 2. ANALYSIS
- 3. ALTERNATIVES & RECOMMENDATIONS
- 4. IMPLEMENTATION
- 5. CONCLUSION

## FACTS & PROBLEMS

World Population Growth - Need for Buildings & Infrastructure +2.4 B Growth in the next 30 years

#### **CONSTRUCTION:**

Productivity -



#### Adoption of Technology

• Level of Digitalization: Second to Last

- R&D Investment: Last
- IT Spending: Second to Last

#### **SWOT: IMPLEMENTATION OF DIGITAL TECHNOLOGY**

#### STRENGTHS

- -Up to date
- -Competitive
- -Efficient process

#### **WEAKNESS**

- -First Big Investment
- -Lack of R&D

#### **OPPORTUNITIES**

-Join Ventures

#### THREATS

- Competition
- -Digital era

# HOW WILL DIGITAL TRANSFORMATION AFFECT OUR BUSINESS?

## **CUSTOMERS**

Demand more digital technology (risk-averse)

Look for <u>cheaper</u> alternatives (no intermediates), yet prioritize <u>quality</u>

Knowledge accessibility

(prior self and external projects)

#### **EMPLOYEES**

#### Loyal employees

- Stage I: Reluctant to change (old practices & job cut speculation)
- Stage 2: Satisfaction (productivity, tech millennials)

#### Risk

- Millennials & Gen Z tend to be less loyal
- Look for mobility and new challenges... outside?

## **PROBLEMS**

MAIN:

How to achieve digital GROWTH?

#### **SECONDARY:**

How digital transformation affect our business?

**ANALYSIS** 

How should our design engineering business change its business model?

How do we fund digital investments?

What should we tell investors?

# HOW SHOULD WE CHANGE THE BUSINESS MODEL?

#### **ALTERNATIVES**

Partnerships / Join Ventures

Equipment Rental

Smart Buildings

## **ALTERNATIVES**

Partnerships / Join Ventures

Equipment Rental

Smart Buildings

**DRIVES GROWTH** 

Drives sales

Clients portfolio

Clients loyalty

**FINANCIAL** 

Non capital Intensive

Long Run Benefit Capital Intensive

**OPERATIONAL** 

Facilitates operations

Availability/
Damage

Increase of processes

**HUMAN RESOURCES** 

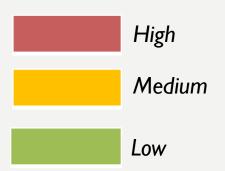
Possible tension

Risk of Loss

Increase of Personnel

# ANALYSIS OF ALTERNATIVES

	Partnerships	Rental	Smart Buildings
Drives Growth			
Financial			
Operational			
Human Resources			



## **SMART BUSINESS**

#### Drives Growth

- Clients Stickiness
- Integral Business
- New clients
- Reputation

#### Financial

- Investment needed
- High substitution Cost

#### **Operational**

- Increase of process
- More efficient process
- Less Error

#### HR

- Increase of personnel
- More trainings

# **ACTION PLAN**

Year I Year 2 Year 3 Year 4 Year 5

## SOFTWARE DEVELOPMENT

Surveys

Engineering

Sales

Add value to the client

Helps O & M

Difficult to change

History Exclusivity

Expertise

Expertise

## FREE TRIAL

- Target existing clients
- Low operations and maintenance
- Software data collection

Client feedback

## VERSION 2.0

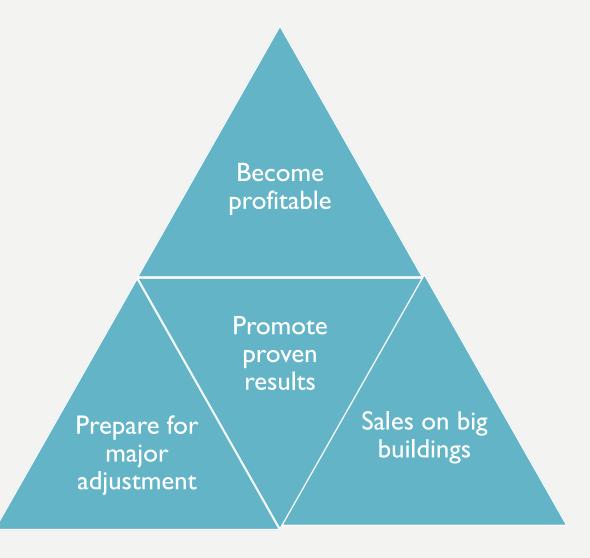
Fix software bugs

New and better features

Second test (existing projects)

Promotion: hotels, business complexes, hospitals

GO BIG



ALTERNATIVES & RECOMMENDATIONS

Year I > Year 2 > Year 3 > Year 4 > Year 5

## GO BROAD

Start developing alternatives

- Construction & Maintenance
  - Bridges
  - Airports
  - Train Stations
  - Stadiums

- Big data analysis
  - Users habits and preferences
  - Open businesses
  - Intelligent space planning

## RISK & MITIGATION

	RISK	MITIGATION
I	Delivery & Satisfaction	Previous analysis & Agreements w Suppliers
2	Not interested clients	Showroom creation for live experience
3	Obsolete technology, Delivery & Satisfaction	Look for different suppliers, Previous analysis & Agreements
4	Not interested, finding new Troubles	Simulations
5	Finding New troubles, finding clients	Simulation, Offer service in the company's other Business units

## FINANCIAL ANALYSIS

#### Sources of funds

- Operating cash flows
  - Engineering, Design and Project Management (EDPM)
    - Revenue = \$3.12 Billions
    - EBIT Margin = 11% (\$343 Millions)
- Dividends from existing concessions and Capital Investments
  - 15 Investments in 5 countries = \$191 Millions

#### Uses of Funds

- Digital Investments
- Dividend Payments (30% payout ratio)
- Share Buy Back
  - Undervalued (P/E multiple x5.1 P/E vs x12.5 peers)

