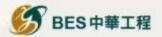




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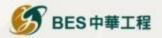




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# **AGENDA**

- I. Corporation Background
- **II. Financial Overview**
- **III.Business Operation**
- IV.Strategy & Future Perspective







#### I. Corporation Background

II. Financial Overview

III. Business Operation

IV. Strategy & Future Perspective

BES Engineering Corporation was established in 1950, being originally subordinated to State-owned Enterprise Commission, Ministry of Economic Affairs, transferred from governmental to private ownership in June 1994.

Major business: construction, development, urban renewal & industrial estate development.













Before 1978

1978-1995

1995-1997

1997-Now

State-owned company

Privatization

**Transition** 

**Transformation** 

The state-owned company that managed heavy construction equipments, named as Bureau of Engineering Services (BES), was renamed as BES Engineering Corporation in 1959.

Officially listed shares, privatization is successful, paid-in capital increased to NT\$ 4.8 billion.

Reinvestment of profit surplus of NT\$ 1.6 billion, paid-in capital increased to NT\$ 9.4 billion.

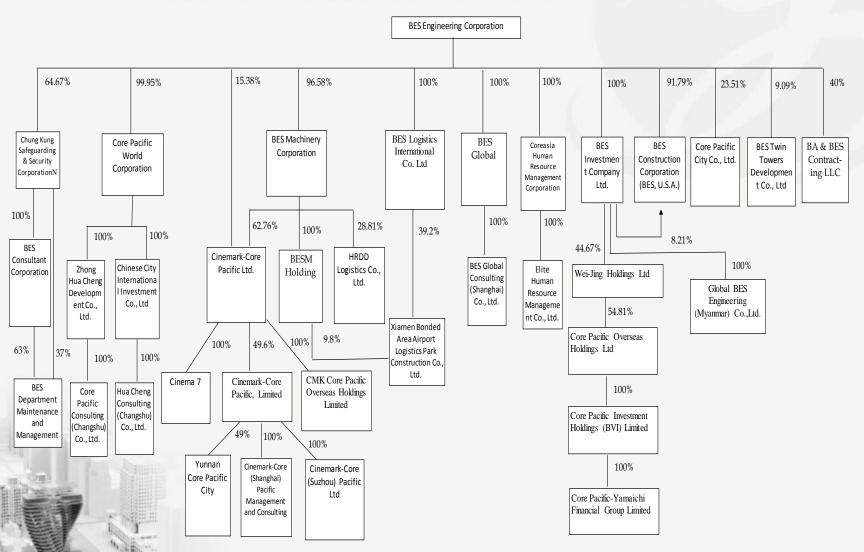
Group, the capital of NT\$ 30 billion, paid-in NT\$ 15.3billion. Restructuring efforts are made to develop both construction and real estate development business.

**Merged into Core Pacific** 

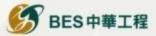




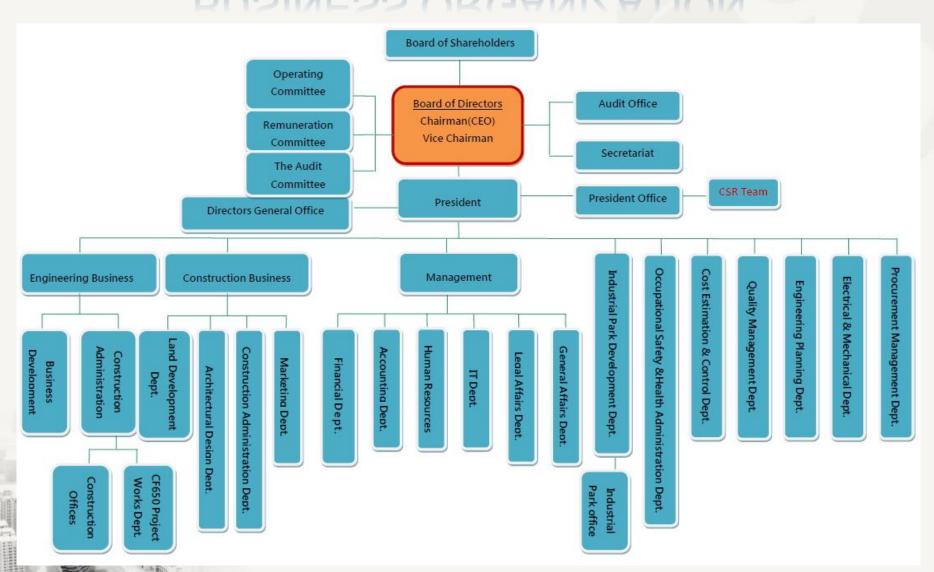
# INVESTMENT STRUCTURE



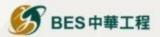




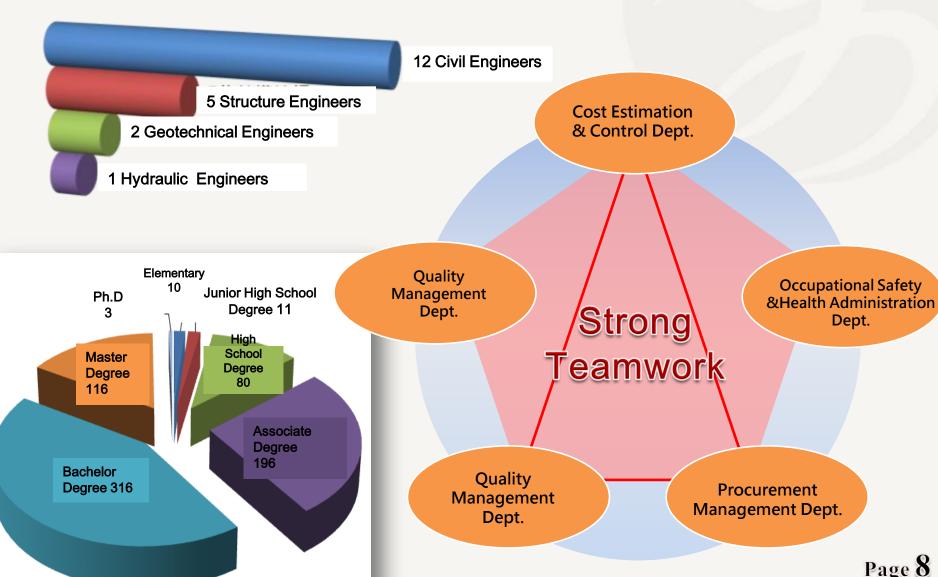
## **BUSINESS ORGANIZATION**





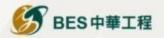


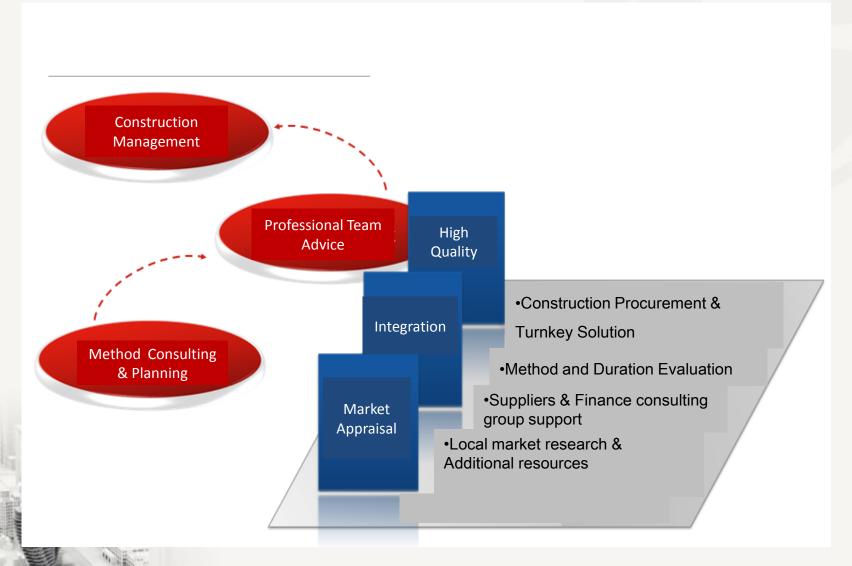
## PROFESSIONAL TEAM



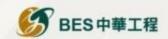


## **OUR SERVICE**









I. Corporation Background

#### II. Financial Overview

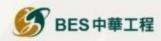
**CONSOLIDATED SALES REVENUES** 

Ⅲ. Business Operation

IV. Strategy & Future Perspective







### CONSOLIDATED SALES REVENUES AND BREAKDOWN

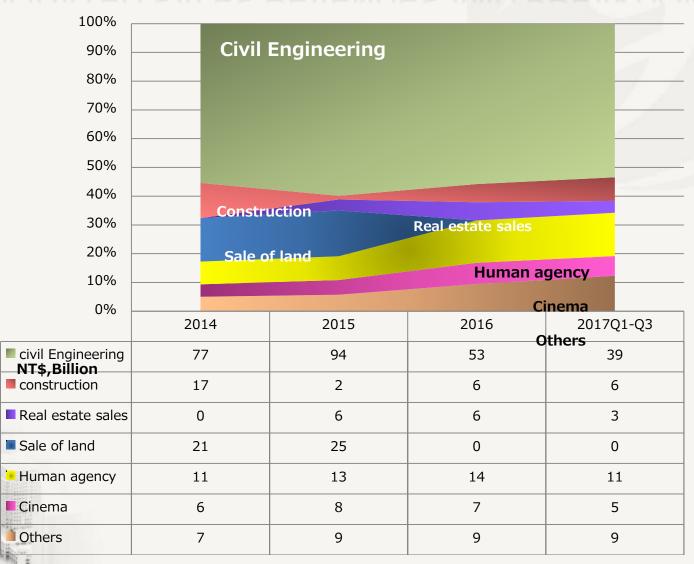


	2014	2015	2016	2017Q1-Q3
■ China	1	1	1	2
North of Taiwan	79	103	63	47
Centrai Taiwan	4	6	3	9
Southern Taiwan	55	47	28	15

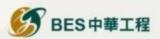




## CONSOLIDATED SALES REVENUES AND BREAKDOWN





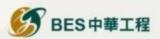


## CONSOLIDATED INCOME STATEMENT

				NT\$, million
	2014	2015	2016	2017Q1-Q3
Sales Revenues	13,899	15,682	9,504	7,297
<b>Gross Profit</b>	1,186	2,073	1,033	786
Operating income	406	1,132	241	245
Total non-operating income and expenses	(51)	(587)	159	41
Net Profit Attributable	534	534	272	246
Total Comprehensive income Attributable	551	227	239	397
Total basic earnings per share EPS(NT)	0.34	0.34	0.17	0.16



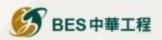




## CONSOLIDATED BALANCE SHEET

してロバンロ	1111411	I KALAN		
				NT\$, million
	2014/12/31	2015/12/31	2016/12/31	2017/09/30
Current assets	27,854	27,714	29,753	28,817
Property, plant and equipment	3,408	3,346	3,538	3,472
<b>Investment properties</b>	951	902	883	879
Other non-current assets	5,897	5,071	4,995	4,716
Total assets	38,110	37,033	39,169	37,884
<b>Current liabilities</b>	11,807	11,727	14,778	13,426
<b>Long-term borrowings</b>	4,184	2,857	2,845	2,867
Other non-current liabilities	2,266	2,590	1,757	1,702
Total equity	18,257	17,174	19,380	17,995
Total liabilities and equity	19,853	19,859	19,789	19,889
Net worth per share	12.91	12.87	12.82	12.88





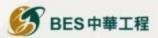
# FINANCIAL RATIO ANALYSIS

	2014	2015	2016	2017Q1-Q3	2014-2017Q3 Construction stock average
Debt Ratio	47.90	46.37	49.48	47.50	58.08~61.84
<b>Current Ratio</b>	235.91	236.33	201.34	214.63	159.45~183.24
Times Interest Earned Ratio	3.11	5.16	3.44	2.58	
Return on Equity	2.72	2.69	1.37	1.24	
Profit Rate	3.84	3.40	2.86	3.37	









# DIVIDEND PAYMENT





#### **BES** construction reference in Taiwan

BES construction activities boost Taiwan's Economy.

#### **Statistics**

- -10 bases of county & city
- -16construction site offices
- -3 industrial park site offices



#### Construction



Improvement of the First Terminal Building, Taiwan Taoyuan International Airport

Parking apron and runways of Third Terminal Building, Taiwan Taoyuan International Airport

Earthwork construction & Foundation work of third Terminal, Taiwan Taoyuan International Airport

Silt-up Prevention Tunneling Project, phase I, Shihmen Reservoir

WH10-C Main Line Construction Project, West Coast Expressway

WH10-B Main Line Construction Project, West Coast Expressway

Expansion Project of Shen-Gang interchange of National Freeway No.4

Silt-up Prevention Tunneling Project of Zengwen Reservoir

CL311 Min-Zu Station, TRA Railway Underground Project

Runway Reconstruction, Kaohsiung International Airport

Kaohsiung International Container Terminal Building, phase II.



嘉義市

台南市

高雄市

屏東縣

CF650 Circular Line Of Taipei MRT

CR580C,Eastern Extension Section, Xinyi Line Of Taipei MRT

Tao-Zhu Yin Yuan

Yanshou Resident Building

Gong-guan Housing Reconstruction & Turnkey project

Urban Renewal Project of Xindian District

#### Construction







#### **Taipei MRT Circular Line CF650**

Commencement Date: 2011.05.25

Scheduled Completion Date: 2018.01.06
Budget: NT\$ 13.76 billion (US\$ 447,523,336)
Client: East District Project Office, DORTS

The project is subordinate to Taipei MRT system, the total length of which is 6.4 km, containing seven elevated stations, the construction methods of which include prestressed U-girders, steel box girders. The construction features of the project are the building of the new MRT tracks and stations across the existing expressway of the Pali-Xindian Line.

## West Coastal Expressway WH10-C 64K+005~69K+600 Project

**Budget: NT\$ 4.085 billion** 

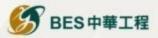
Construction period: 1,150 calendar days

The project is new construction of the main line of "West Coast Expressway Guanyin to Fenggang section (WH09-A, WH10-A, WH10-B, WH10-C)" sub-program, being part of the Subsequent Construction Program of Tai-61 Line West Coastal Expressway, 5,595 meters in length, 6.5 ~ 31.42 meters in width.











## Silt-up Prevention Tunneling Project, Zeng-Wen Reservoir

Commencement Date: 2013.03.31

**Scheduled Completion Date: 2016.09.25** 

**Contract Amount: NT\$ 2.03 billion** 

Client: Southern Region Water Resources Office,

WRA, MOEA

The project is a turnkey project of civil engineering, in which Li-Ming engineering consultant company is commissioned to design. A diversion tunnel approx. 760 M is constructed at Zeng-Wen Reservoir and a super large underground cavern of approx. 147 M long and max. 48 M high is excavated and made a lining, currently being the civil work of Taiwan's largest underground cavern.

#### <u>Shimen Reservoir Anti-silt Tunnel Project (Phase I) -</u> Amping Anti-silt Tunnel Project

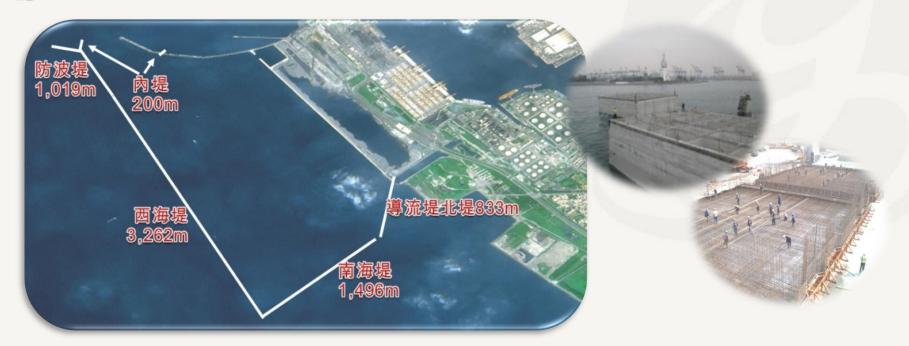
Contract Amount: NT\$ 3.362 billion Construction Period: 1,530 calendar days

- 640,000 cubic meters of silt reduction per year by means of mechanical mud pumping and hydraulic scouring and silting.
- Improve reservoir discharge capacity and increase flood discharge above 600cms.





Page 21



"Kaohsiung Intercontinental Container Center Phase II Project Seawall and Breakwater Works" and "Taipower Dalin Plant Renovation and Reconstruction Project North Bank Works of Diversion Dike"

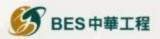
Commencement Date: 2012.03.07

Scheduled Completion Date: 2017.11.30 Budget: NT\$ 8.7 billion (US\$ 290,000,000))

**Client: Taiwan International Ports Corporation, Ltd..** 

The project is located in the surrounding waters of the Dalin Commercial Port District, Kaohsiung Harbor. After extending offshore 1,496 m to south dike from the end (A2) of north bank of Taipower diversion dike, turning northbound to build 3,262 m west sea bank and 1.019 m breakwater and 200m inner bank, comprising caisson manufacture/drag installation (267 nos.), stone throwing, placing, levelling, and sloping, block and wave breaker block manufacture/lifting installation, dredging and backfill embankment, cast in-situ concrete on bank surface and parapet.





#### **New construction of Yanshou**

District K residential Lot size of 2,871 square meters Existing 85 households Land zoning of Residence-3 Building Coverage Ratio of 45%, Floor Area Ratio 225%

Start Date: October 12, 2017

#### Turnkey Project of Gongguan Camp Barracks Rehabilitation

Lot size of 86,817 square meters Contract Amount: NT\$ 2.983 billion

Start Date: June 27, 2017

Features: Green Building, Intelligent

**Building Qualification Grade** 



Left: Command Building, Middle: Wing Unit Building, Right: Integrated Activities Center





## Friendship Zhenmei – New Construction of Residential Buildings

Lot size: 2,261.71 m

Contract Amounts: NT\$ 513 million

Start Date: July 27,2016

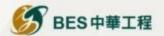
Structure Type: RC/ 17 floors above ground/ 5

floors below ground

**Architecture Planning: 1 Building, 2 Blocks, 130** 

Units Page







Anti-Warming Carbon Absorbing Vertical Forest Residence

**《Originate》** Egoistic Neighboring World-Benefited. Love Tree Love Forest Anti-Warming



- Salute the earth by a vertical forest
- feedback the world with Tao-Zhu spirit
- Only become a tree so as to become eternal
- Anti-warming pioneer, Egoistic, Neighboring, World-Benefited
- East meets West to inherit rare works
- Extend hundreds of years for a special structure
- Urban trees, green building artwork

Lot size: 8,160 m<sup>2</sup>

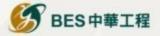
Floor area: 43,000 m<sup>2</sup>

Floor planning: aboveground 21

floors/underground 4 floors P

Page 23







**《Landscape》** Vertical Forest Residence

Planting 356 nos. of Arbor, 22,996 nos. of Shrub















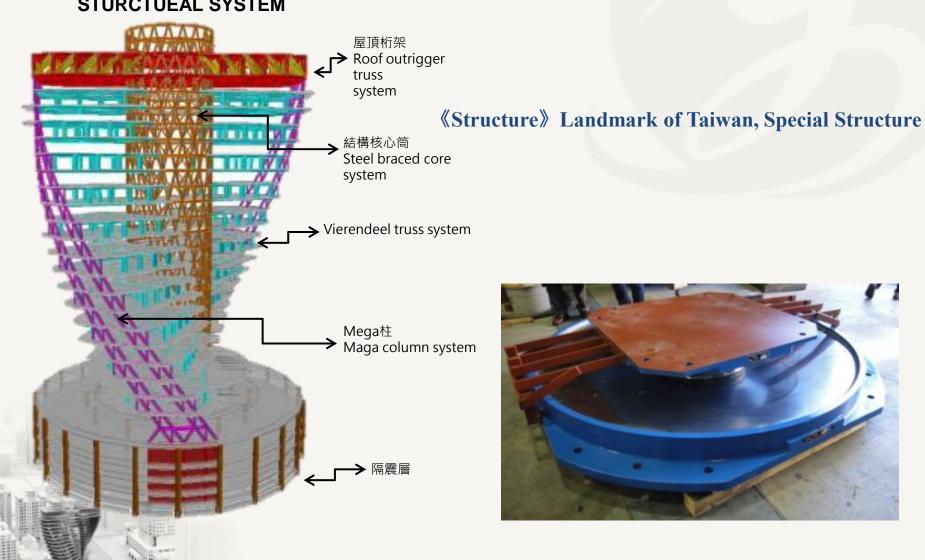


**Collection handed down for generations Talented Beauty Lasting** 



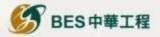


#### STURCTUEAL SYSTEM





#### Development



# ■ Shifting skylines: The 9 new buildings set to define cities in 2016

(5) Updated 1104 GMT (1904 HKT) December 21, 2015



9 photos:

Tao Zhu Yin Yuan Tower (Taipei, Talwan) – Vincent Cellebaut, a self-procisimed "archibicitod" made waves when he first put forward his designs for the Tao Zhu Yin Yuan tower — also known as the Agora Garden tower — in 2010. The twisting tower aims to be one of the world's most eco-friendly structures. It has several of its own gardens and forests to sustain those who reside within, recycles all organic waste and used water and is heated using solar power.





#### **《Glory》Bloom Globally** See Taiwan

- CNN ranks as the 2016 world's landmark -global unique residential case
- 2015 CTBUH Innovation Award for Architecture
- 2014 Singapore WAF Future Architecture Prize
- 2012 US LEED Gold green building
- Pre-validation of seismic resistance label of Taiwan Architecture Center
- Golden class pre-validation of Taiwan green architecture
- Diamond class pre-validation of intellectual architecture
- Passing at a time of Taipei Urban Design





Co-create the tri-win situation of beautifying the urban environment, improving the living standards of residence, and sustaining the development of enterprises.

From 2010, responding to the government policies, the development antenna actively participated in the urban renewal redevelopment business, being devoted to beautify the urban environment, promote the public interest, reduce public disasters, improve the quality of residence, and use "the first brand of urban renewal" as the goal of implementation, constantly sophisticated with self-expectation.



#### Yan-Shou M District

Mode of development: urban

renewal

Lot size: 922m<sup>2</sup>

Lot location: alley 325, Jian-Kang

Road, Song-Shan District Planning of architecture:

aboveground 12

floors/underground 4 floors, RC

structure

Completion: 2015

It won the 2014 National

**Excellence Award for Urban** 

**Renewal Construction Quality.** 









#### **Yan-Shou K District**

**Mode of development: urban** 

renewal

**Lot size: 2,871** m<sup>2</sup>

Lot location: Alley 325, Jian-Kang

Road, Song-Shan District Planning of architecture:

aboveground 15 floors/underground

3 floors, RC structure

Construction plan: 2017~2019

#### Yan-Shou I District

**Mode of development: urban** 

renewal

**Lot size: 4,780**m<sup>2</sup>

Lot location: Yan-Shou Street,

**Song-Shan District** 

Planning of architecture:

aboveground 24 floors/underground

4 floors, RC structure

Construction plan: 2018~2020

#### **Urban Renewal**





#### **Yan-Shou J District**

Mode of development: urban renewal

**Lot size: 10,034**m<sup>2</sup>

Lot location: Yan-Shou Street, Song-

**Shan District** 

Planning of architecture:

aboveground 21 floors/underground 4

floors, SRC structure

Construction plan: 2019~2021 Rare 3,000 pings complete street

block urban renewal case

#### **Nan-Gang Case**

**Mode of development: urban renewal** 

**Lot size: 2,216**m<sup>2</sup>

Lot location: Chong-Yang Road, Nan-

**Gang District** 

Planning of floors: aboveground 15

floors/underground 4 floors, RC

structure

Construction plan: 2018~2020



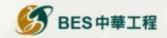


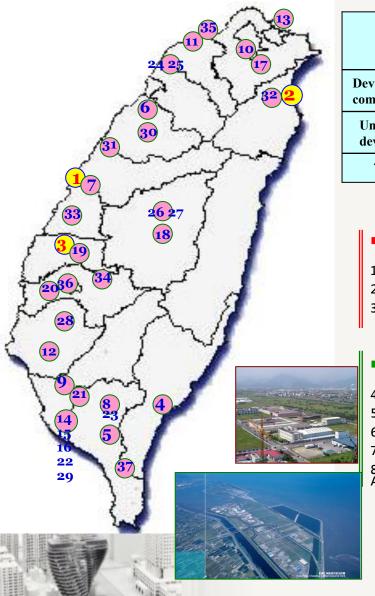


# Development of Industrial Park

The company was commissioned by the government since 1970, conducting the industrial park development and rental business on behalf of the government. Up to 2015, it develops totally 37 places of industrial park, total development areas approx. 8,656 hectares, the total number of manufacturers introduced about six thousand. It has become a leader of industrial park development in Taiwan.

#### **Development of Industrial Park**





	Industrial Park (nos.)	Development Area (hec.)	Sale Area (hec.)	Number of manufacture r (nos.)	Investment Amount (100 million NTD)
Development completed	34	5,628	4,437	6,045	650
Under developing	3	3,028	2,014	3,40	598
Total	37	8,656	6,451	6,385	1,248

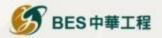
#### Achievement of development

- 1980~2015 Industrial parks under developing
- 1. Zhang-Hua Coastal2455hec.
- 2. Li-Ze330hec.
- 3. Yun-Lin Technology243hec.
- 1980~1990 Industrial parks developed
- 4.Feng-Le18hec.
- 5.Nei-Pu99hec.
- 6.Zhu-Nan78hec.
- 7.Quan-Xing248hec.
- 8.Ping-Dong Automobile100hec.

- 1970~1980 Industrial Park developed
- 9.Ren-Wu21hec.
- 10.Shu-Lin22hec.
- 11.Tao-Yuan You-Shi65hec.
- 12.An-Ping198hec.
- 13.Da-Wu-Lun30hec.
- 14. Kaohsiung Coastal 1177 hec.
- 15.Kaohsiung Coastal Small & Medium-sized Enterprises 19hec.
- 16.Kaohsiung Coastal Industrial Square 15hec.
- 17.Tu-Cheng107hec.
- 18.Zhu-Shan23hec.
- 19. Yuan Zhang 16hec.
- 20.Yi-Zhu16hec.
- 21.Feng-Shan11hec.

- 22.Lin-Yuan388hec.
- 23.Ping-Dong156hec.
- 24/25.Xin-Zhu(Expansion)532hec.
- 26/27.Nan-
- Gang(Expansion)411hec.
- 28.Guan-Tian227hec.
- 29.Da-Fa391hec.
- 30.Tong-Luo50hec.
- 31.Da-Jia You-Shi218hec.
- 32.Long-Te236hec.
- 33.Fang-Yuan160hec.
- 34.Min-Xiong244hec.
- 35.Lin-Kou Gong-Er55hec.
- 36.Po-Zi21hec.
- 37.Ping-Nan276hec.



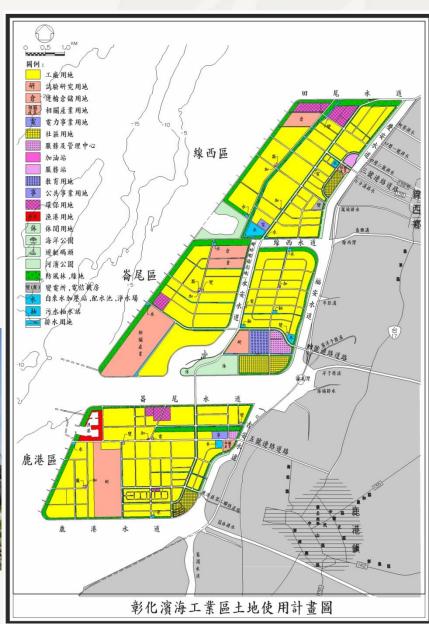


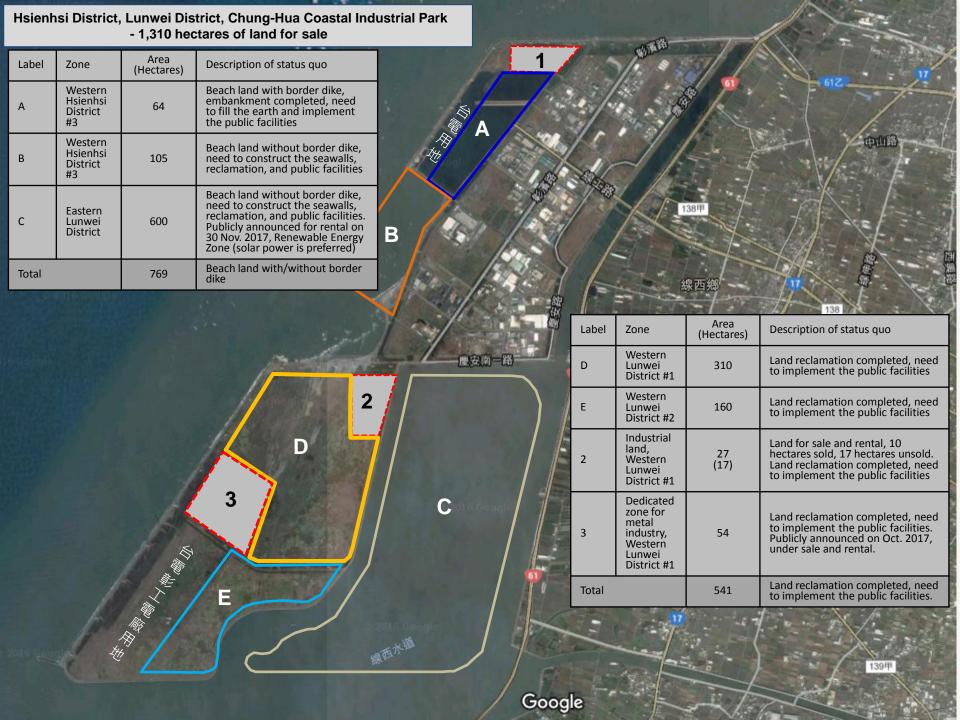
## 彰濱工業區(線西區崙尾區)

Chung-Hua Coastal Industrial Park

"Zhang-Hua Coastal Industrial Park" is the large-scale town-making of industrial park for the first time domestically. Based on a solid traditional industry, it re-shapes the features of Taiwan, introducing emerging industry trends, to achieve a grand and vast new situation of sustainable development.







**BES中華工程** 

I. Corporation Background

II. Financial Overview

■. Business Operation

IV. Strategy & Future Perspective

#### Intelligent Management

Brief Introduction to Management Services

#### BIM(Building Information Modeling)

Overall introduction of Building Information Modeling, to employ BIM for the planning and design stage, construction stage, and operation management stage of the construction projects to avoid the wrong design, reduce the changes of design and shorten the planning and construction processes.



Simulation of steel hoisting and installation

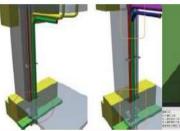
Auxiliary mobile devices



BIM management team



3D-output drawings



Optimization of pipeline configuration



Simulation of sequencing and scheduling



#### The Database Applications for Various Stages





#### Review at the basic design stage

- Integration of the model establishment of the basic design stage, design coordination.
- Examnination of space requirements, induction of space details.
- Revision of the model according to the comments of review.

#### Review at the detail design stage

- Development of architectural and structural models at the detail design stage
- Review and revision of MEP collision, to review and revise the relevant paths.
- Clearing and clarification of construction drawings.





Computer-aided Checking and Verification System for Building Construction Permit

Creating the first exemplification in the country from acquiring the building construction permit using ArchiCAD BIM model



#### Real Time Video Management Center - Intelligent Real Time and Management Control System

Real-time management and control of the construction sites, through the auxiliary of the video system, effective confirmation of the real time control of the construction control points, safety & hygiene, and quality management.

To start using the "Real Time Video Management Center" ahead of the industry. The company always on the way supervises the operation status of the construction sites, through the video system to assist the construction and safety & hygiene management, and at the same time to confirm the quality and progress to achieve the site overall check and examination.

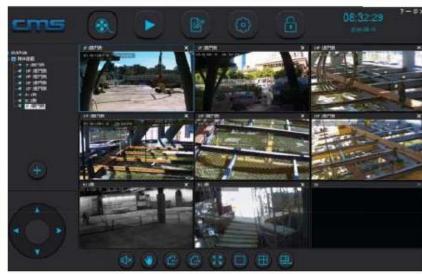


The intelligent construction management system, through the handheld devices connecting the internet, at any time to assist the construction and safety & hygiene management, real-time connection, real-time response, and real-time confirmation, as if visiting at the scene.





Real time live stream on the construction site



Monitoring screens





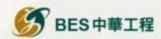
#### **Public Construction**

According to the public construction budget report for the fiscal year of 2018, the estimated budget will reach NT\$ 238.9 billion for infrastructure construction project, reaching a 7 year high.

BES continues to participate in Taiwan infrastructure construction, moreover, actively seek opportunities of Joint Venture construction project overseas.







#### **New Construction Business**

#### Tao-Zhu Yin Yuan

Green-building & Carbon-absorbed Art Housing.

- •The main structures were completed on Nov.2016
- •Apply for Building Use Permit in The first quarter of 2018.

#### **Tucheng Industrial Park**

- Product Positioning Strategies & Architectural Design Planning are in progress
- •The case is still under administrative processing by Urban Redevelopment Office of New Taipei City Government

# The Minsheng Community Urban Renewal Project

- Building demolition work will complete by the third quarter of 2016
- •Presale begun on Oct.2016





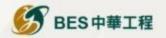


## **Industrial Park Development**

- •Hsienhsi District of Changhua Coastal Park has been announced for lease/sale, and the investment solicitation process got started in the beginning of 2017, and at present the development works are under construction.
- •In line with the regulations of the illegal agricultural land banning and developing the renewable energy industry (solar photovoltaic and wind power industry), the planning of the metal surface treatment area in Western Lunwei District and the renewable energy land in Eastern Lunwei District have been implemented. We will carry out investment solicitation activities soon.







# THANK YOU Q&A

