「经济特区開発提案」(細戶編)に何付、構造模計

東日本大震災 復興計画 参考資料

[上海・長江経済圏との経済圏共有を国内の地域復興に活かすことの戦略計画]

社会資本研究会 事務局 事業プロデュース 鈴木 浩二 95.6.20

神戸との経済共有圏の獲得のために一

海外コンソーシアムからの提案 ーシンガポール・上海における 4回のF/Sより(当事務局) 1994年11月~

上海・長江エリアに集中する巨大開発投資と、その投資を行なっている 投資国(外貨事會む)からの総合的ビジネスを神戸へ向かわせる。 とのようと?

神戸と結ぶことにより、上海・長江エリアへの投資国(シンガポール)の 「開発投資の早期回収と投資の軽減化」を図らせることのできる構造を組み立てる。

" "ASIA PACIFIC SECURITY AREA" ,

日本→アジア・パシフィックへ

(APEC SOM 利用)

上海~無錫、鷸州 他 長江圏 開発投資 シンガポール 開発コーディネーション 何か。 (香港 他一) 開発投資 神戸 オペレーション 自律インフラと投資導入 対日投資の中身を考えていく。

95**#**6**#**

■セキュリティ・インセンティブを切り口とするソーニング開発 → 経済圏共有の街開発

1. 通貨

8. 交通・情報インフラ

2. 就業、居住 3. 企業活動への特惠条件/経済上の貿易

9. 教育·人材育成 10. 自治補償

4. 防災/セキュリティ/福祉

11. 生活・自治権・市民権

5. 治安

12. 都市開発/エネルギー

6. 技術補償 基準/著作権

13. 文化交流促進

7. 多国間・多人種間の情報・ライフサービス補償

■上海・無錫・蘇州等の総投資回転の高稼働と安定を図るための 通貨・技術補償・日本企業資本の投入による"セキュリティ・エリア"の開発

<u>シ</u>ンガポールの経済特区開発ノウハウと同国の上海・長江経済圏への大規模な開発投資を生かす。

「対日投資会議」のインセンティブ利用

シンガホール政府・ 政府系企業

→ 上海·無錫·蘇州 経済特区

(なぜ投資をするのか。)

これらの地域の特区政策にこれからの マーケット移行を読んでいるから。

長江川を使ったビジネス

ビジネスMDの軽量化

KOREAとの競合/釜山

・日本の港湾へのビジネス拠点化に よって開発投資を軽減

(ならばこれらのエリアへの投資を回収する方法とは。)

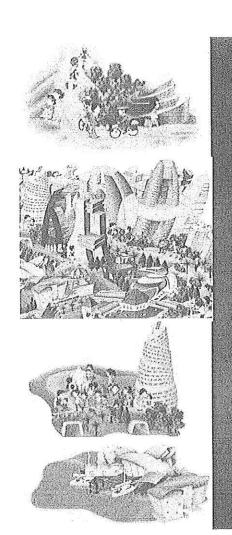
- ・当エリアにおける通貨の安定補償と高度生産技術の確保
- ・当エリア開発の優秀な人材・労働力の他地域への斡旋
- ・ビジネスターゲットの拡大と生産MDの高付加価値化
- ・開発投資回収の安定化―――円を使う(円高利用)
- ・潜からと空からとのビジネスチャネルを分ける

※ シンガポールが無錫・蘇州で何をビジネス対象としているか。-再開発/インフラそのもの? あるいは貿易ビジネスか。

開発対象 (無錫)

タウンセンター開発 → ディベロッパー・ビジネス

工業団地開発 → コーディネーション・ビジネス (第一篇 100ha、 最終1000ha)



DEVELOPING A CITY OF THE FUTURE

SINO-SINGAPORE TIANJIN ECO-CITY 中新天津生态城

> Mr Goh Chye Boon CFO

Sino-Singapore Tianjin Eco-city Investment & Development Co. Ltd

OUTLINES

- Our People-centric Vision
- Our Corporate ecology
- Sustainable Development in China
- © Eco-city development & planning
- © Conducive Environment for Eco-industry

Our people-centric vision

OUR PEOPLE-CENTRIC VISION

As wollVe, so shall we become

- Richard Register

OUR SUSTAINABLE OBJECTIVES

A Very Liveable City



Ecologically righ homes











Economically vibrant bob





FUTURE-READY DIRECTIONS

Ready

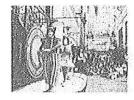


Solutions

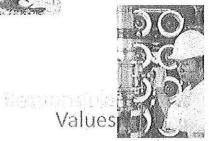


Lifestyles





Creativity



CORPORATE ECOLOGY

- A 50:50 joint venture between Singapore Tianjin Eco-City Investment Holdings Pte. Ltd. (STEC) and Tianjin Eco-City Investment and Development Co., Ltd (TECID)
- JV Agreement signed on 1 July 2008
- Initial registered capital of RMB 4 billion



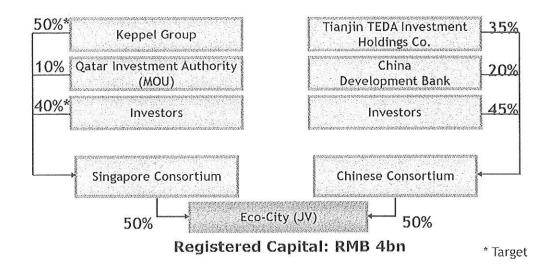


Corporation

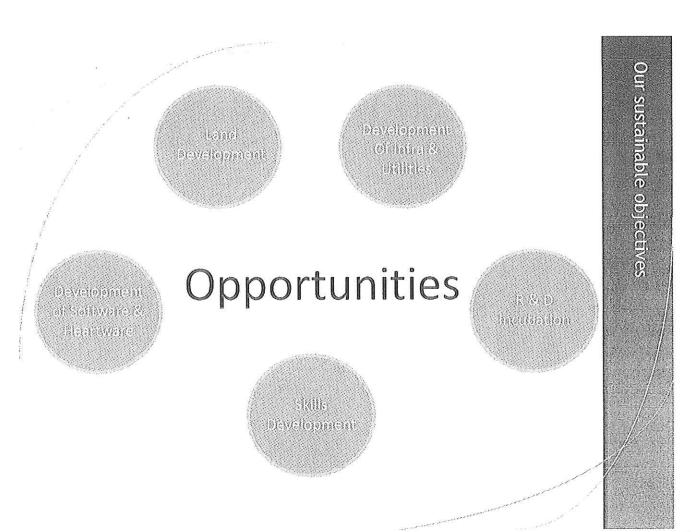


Our people-centric vision

WHO ARE WE



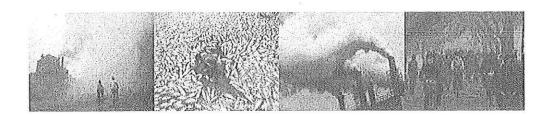
Shareholders' land capped at 60 hectares each



SUSTAINABLE DEVELOPMENT IS SUNRISE INDUSTRY IN CHINA

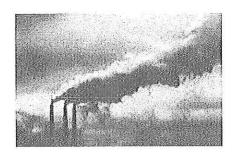
Tremendous potential and sustained SD opportunities in the Chinese market

Environmental Sustainability Index 2008 - China Rank 105 out of total of 149 Cities



SUSTAINABLE DEVELOPMENT IS SUNRISE INDUSTRY IN CHINA

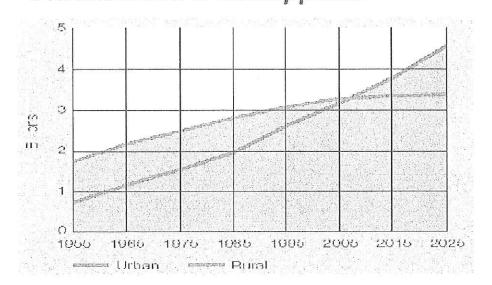
Carbon-constrained world is a given





- World energy consumption is to increase 40-50% by 2010
- Developing countries use 30% of global energy
- Post-Kyoto Protocol
 - Carbon emission constraints

SUSTAINABLE DEVELOPMENT IS SUNRISE INDUSTRY IN CHINA Urbanisation is unstoppable



Source: Drivers of urbanization (Arup)

SUSTAINABLE DEVELOPMENT IS SUNRISE INDUSTRY IN CHINA

Urban solutions create new global businesses



- In 20 years, China's cities will have added 350 million people—more than the entire population of the United States today or 2 New York cities a year.
- The country's urban population will reach 926 million by 2025 and top 1 billion by 2030

GENESIS OF OUR ECO-CITY

Challenges faced by typical Chinese city









OUR ECO BASELINE

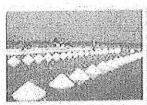
Selecting an area that has poor ecological track record to make a difference

Site Selection Criteria

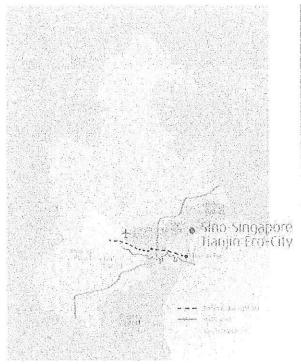
- o Non-arable land
- Limited water resources
- Commercial viabilityEconomic and job

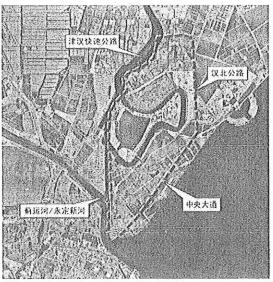
opportunities





LOCATION





Total Area: 34.2sqkm

40km east to Tianjin downtown

PLANNING PROCEDURES



A metropolis that celebrates sustainable development

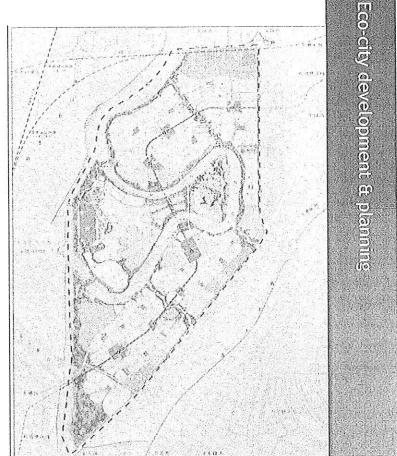
A home for 350,000 people living in harmony with nature

Implementable, Replicable, Scalable

Eco-city development & planning

By 2020, total land development area is 25sqkm

- ♦Urban functional area From South to North
- ♦Water /Eco-corridors From West to East



PLANNING PROCEDURES

Master Plan

MPIs

22 Quantitative KPIs 4 Qualitative KPIs

KEY PERFORMANCE INDICATORS

Healthy Ecological Environment

- Good Natural Environment (air, water, native plants, wetland conservation)
- Balance of man-made environment (green buildings, noise, carbon emission,

Comprehensive Infrastructures

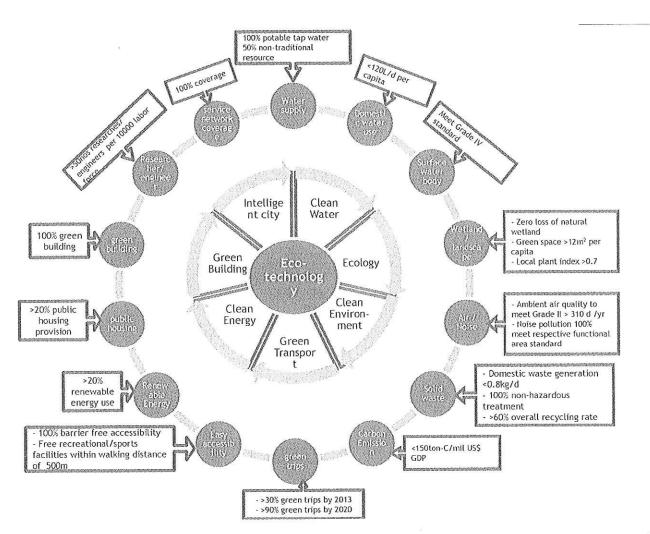
- · Solid waste recycling and disposal
- Provision of green space/recreational/sports facilities
- Service network coverage

Social Harmony & Progress

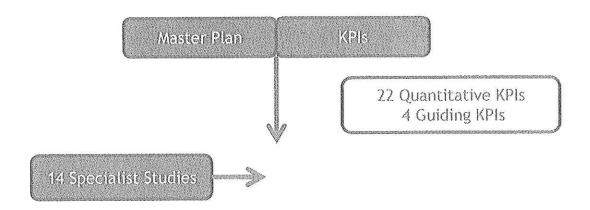
- Green trips
- Domestic water consumption
- Domestic waste generation

Dynamic and Efficient Economy

- Renewable energy usage
- Vibrant technology innovation



PLANNING PROCEDURES



WATER & ENVIRONMENT PLANNING

- 100% potable tap water supply
 - Water supply plant (both from TEDA & Hangu)
 - Advanced water supply network management

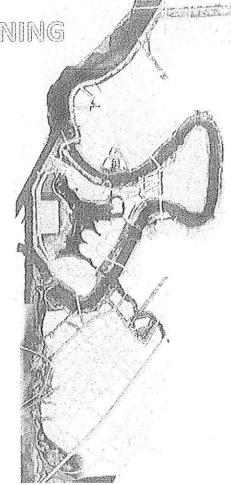




- - Household water saving management

WATER & ENVIRONMENT PLANNING

- Quality of surface water bodies to meet GB Grade IV
 - Wastewater pond rehabilitation
 - Yingcheng Sewage Treatment Plant (meet GB 1A discharge standard)
 - Old Ji Canal bio-rehabilitation
 - 6 Eco-corridors
- Water supply from non-traditional resources ≥ 50%
 - Recycled water treatment plant
 - Rainwater harvesting
 - Desalinated water

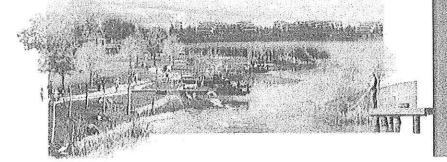


WATER & ENVIRONMENT PLANNING

- © Zero net loss of natural wetland
 - Estuary wetland conservation
 - Engineering wetland

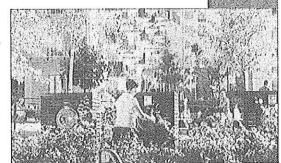


- ⊕ Public green space per capita ≥ 12m²



ENVIRONMENT PLANNING

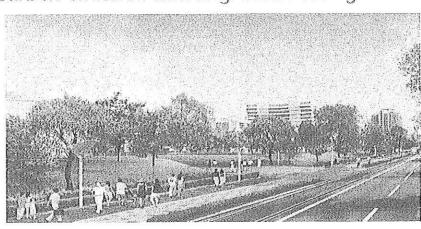
- Treatment to render solid waste non-hazardous 100%
 - Pneumatic waste collection system (PWCS) for household waste disposal/classification
 - Pharmaceutical , Industrial, Construction waste management
- Overall recycling rate ≥60%
 - Solid waste classification/recycling plant
 - Biomass power plant



ENVIRONMENT PLANNING

- § Ambient air quality to achieve GB Grade II

 § 2310days/a (85% of the time)
- © Carbon emission per unit GDP <150tonne-C/US\$1mil
 - Clean Development Mechanism
 - Carbon emission auditing/certificating



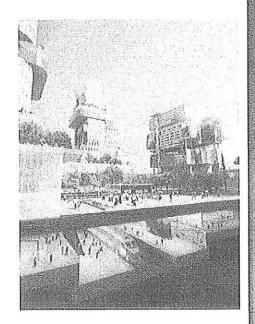
INTEGRATED TRANSPORTATION PLANNING

90% green trips by 2020

- Clean engine vehicles
- Rail system (LRT, tram)
- Bicycle rental system
- Road network planning
- Public transport planning

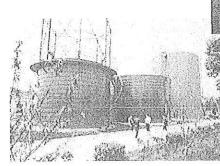
Intelligent transportation system

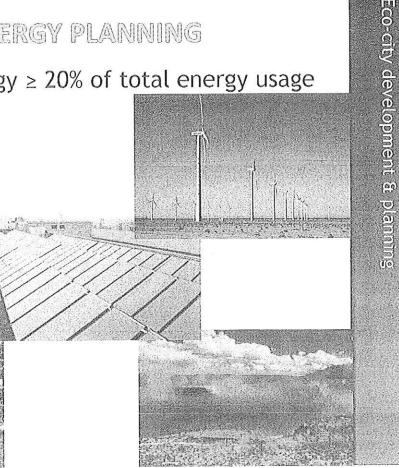
- Signaling
- Remote monitoring
- Real time feedback
- Emergency management



RENEWABLE ENERGY PLANNING

- Solar
- Wind
- Geothermal
- Biomass
- Heat exchange
- Residual heat
- Many others

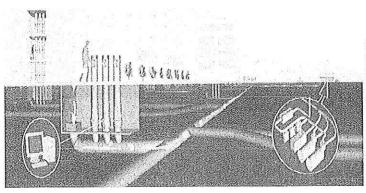


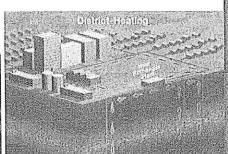


UTILITIES & INFRASTRUCTURE PLANNING

Service Network Coverage 100%

- Vibrant Technologies Innovation
 - District Cooling/Heating System
 - Vacuum Sewage System
 - Pneumatic Waste Collection System
 - More to come...
- System integration/intelligence

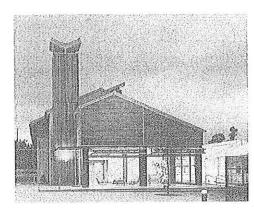


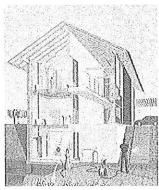


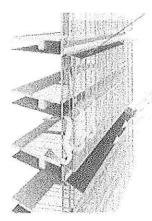
GREEN BUILDINGS PLANNING

100% green buildings in eco-city

- Green building design
- Green construction
- Green materials
- Intelligent building system (IBS)
- Building energy optimization

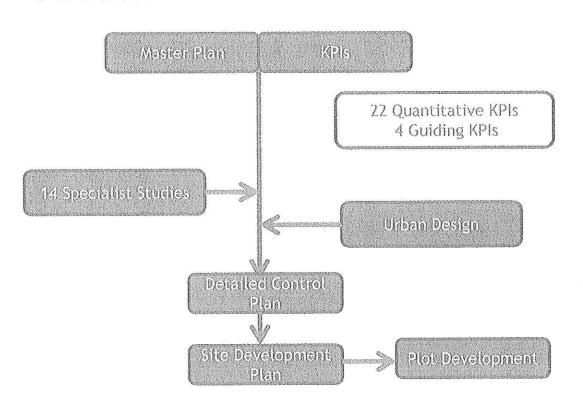


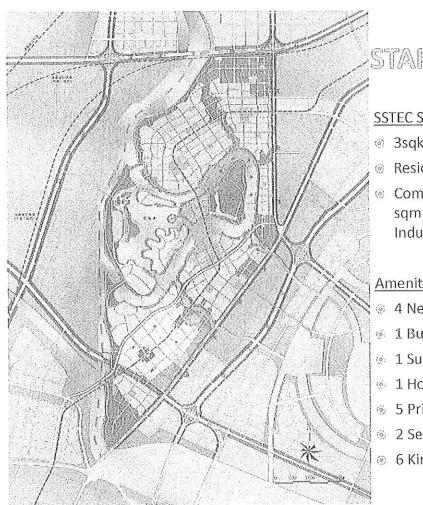






PLANNING PROCEDURES





START UP AREA

SSTEC Startup Area Fact Sheet

- 3sqkm area
- Residential GFA: 2.9mil sqm
- © Commercial GFA: 314,000

Industrial GFA: 414,000 sqm

Amenities

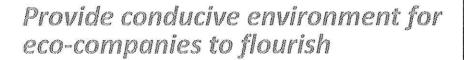
- 4 Neighbourhoods
- 1 Business Park
- 1 Sub-centre
- 1 Hospital
- 5 Primary Schools
- ② 2 Secondary Schools
- 6 Kindergartens

OUR ECONOMIC POSITIONING









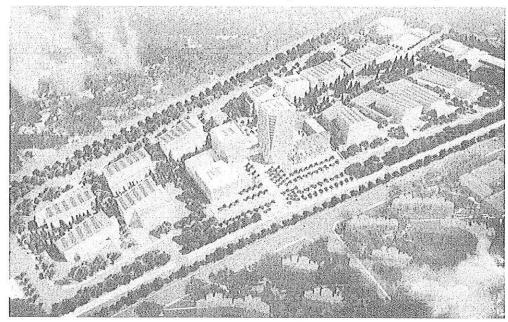
- o Business parks customized for R&D and commercialization of cleantech
- **o** Centre for eco-education, training & research institutes to provide skilled workforce
- o Sustainable development financing hub

Working on policies to encourage eco biz activities

OUR TARGETED INDUSTRY CLUSTERS **MAIN FOCUS** Clean Energy Green Clean Water Buildings Scholen Molecu **SECONDARY FOCUS** Green Waste Transport Management IT Environment Outsourcing (inc. Parks (Mgt) **Business Process** Outsourcing Interactive Digital Media & Animation Hubbing of R&D companies

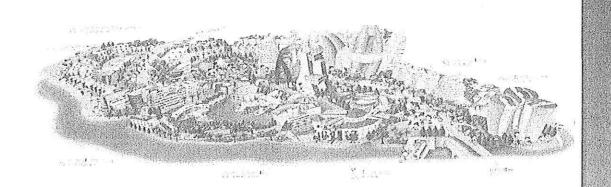
OUR ECO BUSINESS PARK

LEED-Silver Eco Base for Eco Companies



Groundbreaking on 3 June by Minister(MND) Mah Bow Tan & Minister(MOHURD) Qiu Bao Xing

DEVELOPING A CITY OF THE FUTURE



THANK YOU!