

**2011 Euro-Asia Economic Forum
Heritage Protection and Tourism Parallel Session**

The Proposal toward XI' AN the Future Excellent City 2020-2050

**Starting from Heritage Protection and Tourism
Creates New Xi' an Life
with Culture, Sustainable Progress under Climate Change,**

**Progress & Legacy·Culture & Aesthetics
As Environmentally Advanced Xi' an Model**

池上俊郎 Toshiroh IKEGAMI

京都市立芸術大学 教授 / professor architect / Kyoto City University of Arts ikegami@kcu.ac.jp

INDEX

1 ; Prologue ;

2 ; Recognition & Keywords for Creating Efficient Carbon Sustainable Society

**3 ; Hypothesis for Future of Highly Developing Xi' an
Creates Future Xi' an 2020-2050 by Amplifying Smart Potentiality of Xi' an Now**

**4 ; About Strategy - Future Xi' an 2020-2050
Towards Creating Active & 3-Dimensional City with Matured Infrastructures,
By 8 City Ideals & 6 City Managements**

**5 ; About Plan of Action - Future Xi' an 2020-2050
1 - Tourist City with Heritages 2 - Future Intelligent Science City
3 - Design, Arts & Education City 4 - Biomass City with Life Forms**

**6; About Target Area - Construct Excellent Future Xi' an 2020-2050
Create The Rich Mental Society with Small Environmental Load**

**7; About Target Level - Future Xi' an 2020-2050
800,000 Peoples Employment with Lower CO2**

**8 ; Epilogue :
from 5000 YEARS PAST to 5000 YEARS FUTURE**

**End Result :
Xi'an will create the Future Active Model City
Starting from Heritages & Tourism
for China, Inland Asia and World.**

1 ; Prologue ;

**I learn Developing Xi' an from 1997.
I think starting from Heritage Protection and Tourism,
we can creates New Xi' an Life
with Culture & Sustainable Progress under Climate Change.**

Today I speak 5 points

- 1– “Heritage Protection and Tourism is Important infrastructure
in Rapid Developing countries.**
- 2– As Comprehensive City, Historical City is Contemporary City & Future City**
- 3– Our Special Issue for Sustainable Society,
We must creates Efficient Carbon Society for the Reduction of Environmental Load.**
- 4– Highly developing area must Create Active & 3–Dimensional City
with Matured Infrastructures,
By 8 City Ideals & 6 City Managements.**
- 5– Hypothesis for Future of Highly Developing Xi' an.
The Proposal toward XI' AN the Future Excellent City 2020–2050**

**After 2000, developing cities & nations in the world
extend Infrastructure systems.**

Traffic network, Energy network, Communication network

Here is some ignored big factors as important Infrastructures.

Factors are

1; culture & legacy & tourism,

2; advanced education,

3; advanced technology,

**4; primary industries – agriculture, fishery, forestry
with biodiversity.**

These are the smart potentiality of Xi'an, starting from “culture & legacy & tourism”.

I think “Heritage Protection and Tourism” are Important infrastructure.

**As the Comprehensive City, the Historical City is the Contemporary City & the Future City.
Today I show my Proposal for Xi'an as an example of Future Historical City .**

**Please permit me to speak
about my brief profile as an architect.
This is the reason why I speak
“The Proposal
toward
XI’ AN the Future Excellent City 2020-2050”.**



Designing with the concept "EDIT" and creating new lifestyle as an architect.

Territory of design covers mainly architecture, city planning, landscape design, product design etc.



WORKS 1981-2010 ACT as a SPACE DESIGNER designing 1/1-1/200,000

after 2000

SIMULATING “the DWELLING SPACE”

from PAST to FUTURE for HOW WE LIVE NOW

MY RESEARCH PROJECTS 2000-2008

from **PAST**: RESEARCH PROJECT 1:2000-2004

LEARNING & ARCHIVES of SPACE HERITAGE 1200 YEARS

Exhibition :Tōji Temple Kyoto-ANATOMY in CYBER SPACE JAPAN2003 CHINA2004

works of graduate school / Kyoto City University of Arts

to the **FUTURE**: RESEARCH PROJECT 2: 2001-2003

HOW to DWELL in INTERNATIONAL SPACE STATION

ARTISTIC APPROACH TO SPACE/ Kyoto City University of Arts & JAXA

NOW :RESEARCH PROJECT 3:2003-2006

HOW WE ACT for ECODESIGN SOCIETY

Osaka model of circulation oriented society

through case study of existing city & neighborhood nature

/TEAM AXIS4 NPO ECODESIGN NETWORK

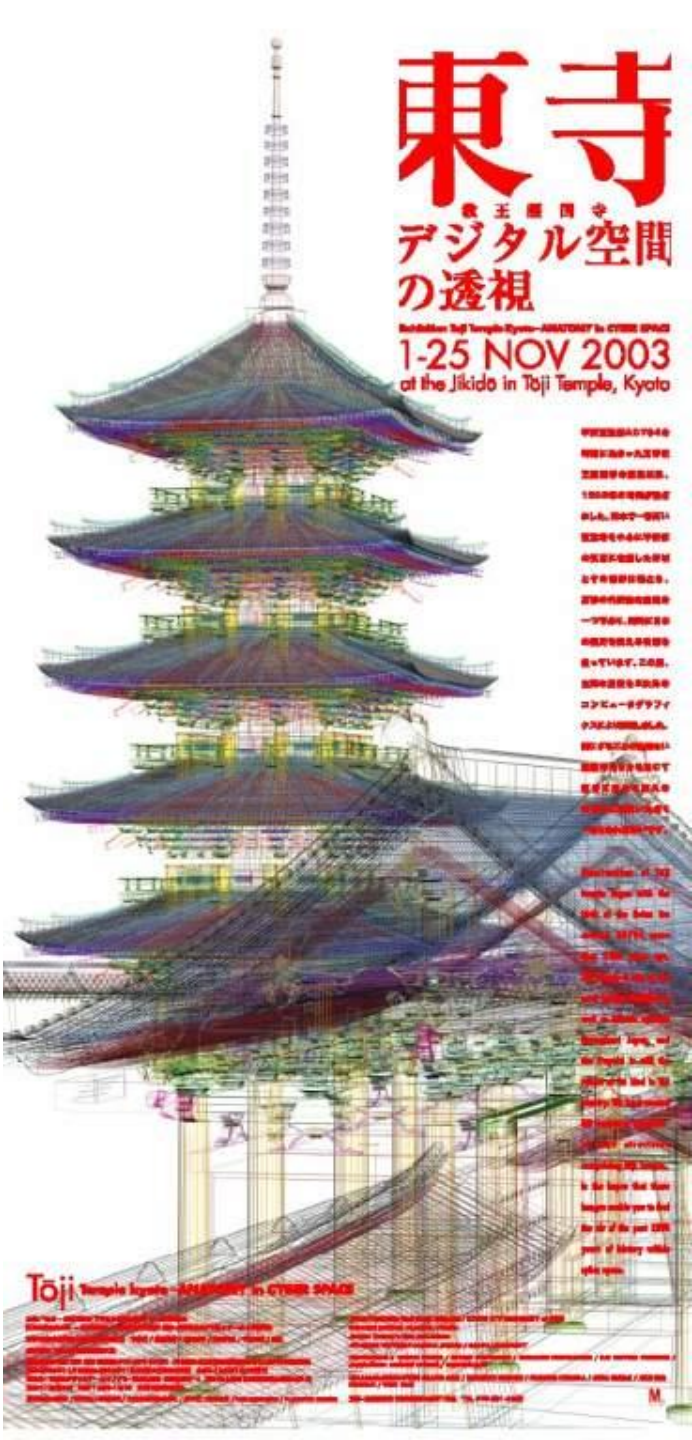
RESEARCH PROJECT 1:2000-2004

from PAST:

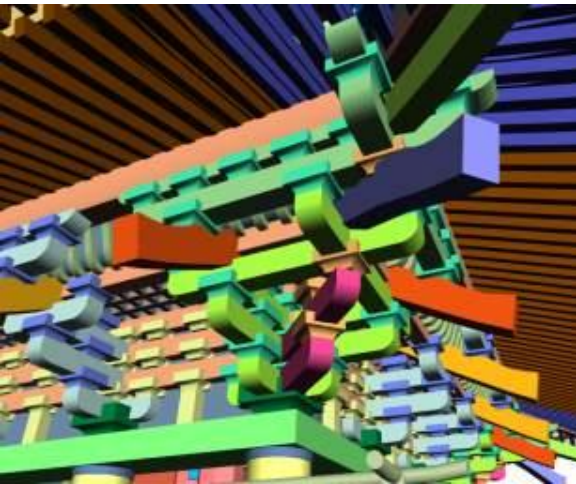
LEARNING SPACE HERITAGE 1200 YEARS

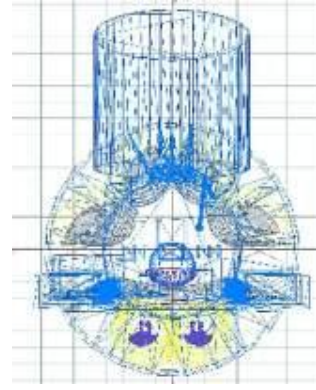
PRIEST KU-KAI VISITED CHANGAN 804

HE BROUGHT ESOTERIC BUDDHISM to JAPAN



Exhibition: Toji Temple Kyoto—ANATOMY in CYBER SPACE
works of graduate school / Kyoto City University of Arts
JAPAN 2003 CHINA2004



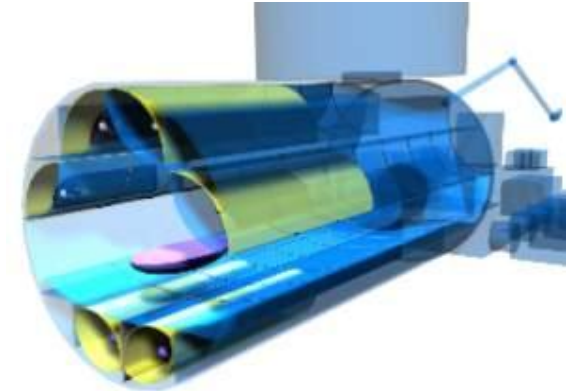


HOW to DWELL on the PLANET

THINKING & SIMULATING INTERNATIONAL SPACE STATION



MICRO GRAVITY WXPERIMENT
22MAR2003TOSHIROH IKEGAMI



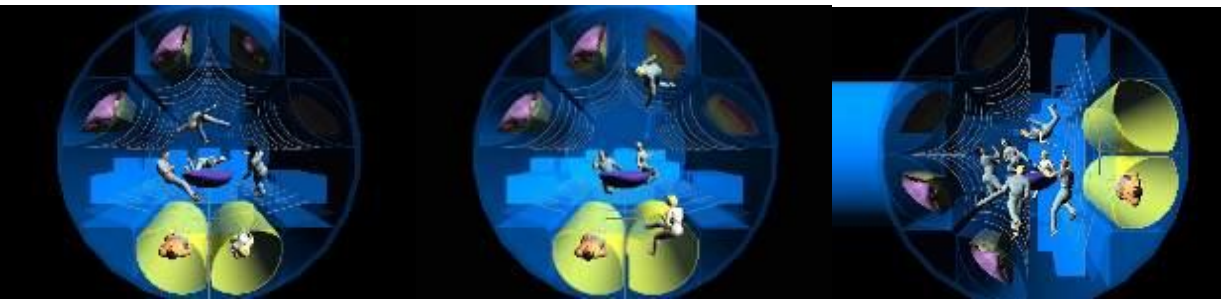
RESEARCH PROJECT 2: 2001-2003

To the FUTURE:

ARTISTIC APPROACHES TO SPACE

Kyoto City University of Arts & JAXA
- Japan Aerospace Exploration Agency

HOW to DWELL in SPACE
NO AIR/NO GRAVITY
NO WATER/NO ENERGY/NO FOOD
without PLANTS & ANIMALS
only SOLAR SYSTEM



designed by TOSHIROH IKEGAMI



Osaka model of circulation oriented society

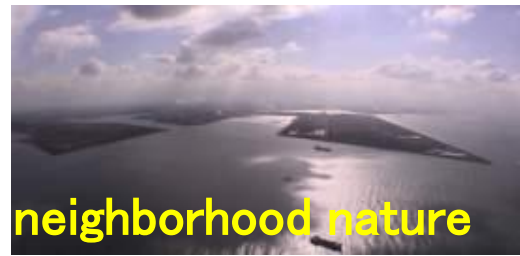
through case study of existing city & neighborhood nature

2003-2006

Based on results from Japan Science and Technology Agency / RISTEX



existing city



neighborhood nature



RESEARCH PROJECT 3:2003-2006 NOW, HOW WE ACT

By DESIGN

デザインの力で
ライフスタイルを
ビジネススタイルの
変革

LCCO²
地球温暖化防止
emissions
現状比30%削減
達成の補完
by 30%

エコデザイン
スリムライフ
サイクルデザイン

Revampin
大阪地区の
産業再生の
方策を提示
foundation

environmentally
環境先進都市
大阪の創造
advanced

Osaka.

対象：
大阪市内密集市街地
大阪湾沿岸未利用地

普遍性をもった循環型都市再生アジアモデルの構築

Revampin
industrial
foundations

デザイン
ライフ
ビジネス

TECHNICAL WORKS

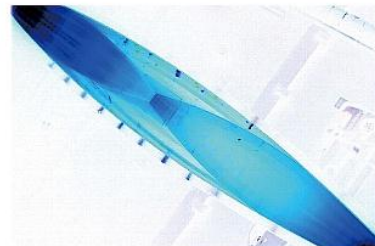
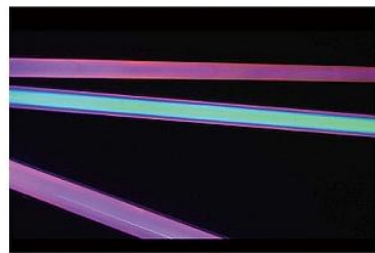
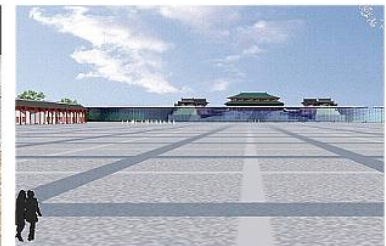
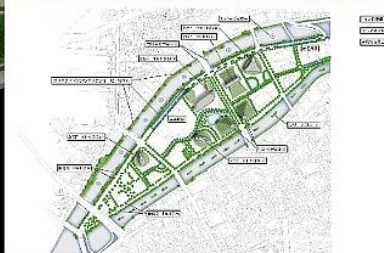
ARTISTIC WORKS

STRATEGY CONCEPT

By DESIGN

COOLHABIT・
大阪地区の産業再生の方策を提示
GREENWORK
比30%削減達成を補完

Creating a Circulation-oriented Society through Lifestyle Aesthetics of Eco-Design



I am an Architect, So I always think How to Realize the Solution

遗址公园将成西安绿肺

——日本建筑设计大师池上俊郎畅谈大明宫遗址保护

大明宫

PEOP GOVERNME



千年后的发展。大明宫遗址这么大体量的保护对西安市的影响也应该考虑到一千年后，它的时间跨度6000-8000年的时空跨度。大明宫的位置处于西北邻，也有低矮棚户区将变成高楼林立的发展，开展好与坏，对其的研究开发保护利用要充分考虑其变化，就终将会毁于城市的自然发展。要营造的美丽，最重要的是它的文脉，就像一本小说刊附线一样，城市也有它的文化脉络，设计城市如同一样也要有自己的风格自己的脉络。对西安来说，既有明清时代如钟鼓楼等古建筑，也有众多遗迹，还有现代飞速发展的城市，这就看如何去编大明宫这样的大面积古遗址，它的特殊性和世界上是绝无仅有的，它的遗迹以古代外轮廓完整下来，它又处于3000年来的城市中心。

I propose
“Pilot Plan of Da Minggong Cultural National Historical Park XI'AN 2007”
It was honorable & memorial work for me.

DESIGN as FACTOR
TECHNOLOGY



中国 西安 唐大明宫国家遗址公园策划 2007
Pilot Plan of Da Minggong Cultural National Historical Park XI'AN CHINA 2007

2 ;

Recognition & Keywords

for Creating Efficient Carbon Sustainable Society

**Our Special Issue for Sustainable Society,
We must creates Efficient Carbon Society
for the Reduction of Environmental Load**

Now Artificial Climate Change

Arctic Report

Arctic Ocean

Sea-ice Conditions

2002 – 2010

20020908 5149688 km²

20030918 6032031 km²

20050922 5315156 km²

20060920 5846875 km²

20070924 4254531 km²

20080909 4707813 km²

20100908 4977344 km²

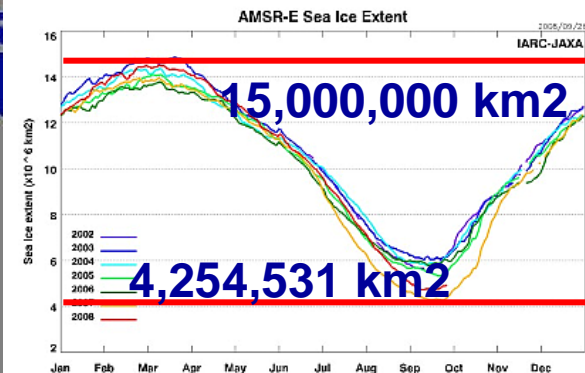
20100908 4,977,344km²

20030918 6,032,031 km²

20070924 4,254,531 km²

20080909 4,707,813 km²

最新海水面積: 4,845,210 km²(2008年9月16日時点)



Recognition

KEYWORD 1

CSR

企業の社会的責任

CORPORATED SOCIAL RESPONSIBILITY

地域の社会的責任

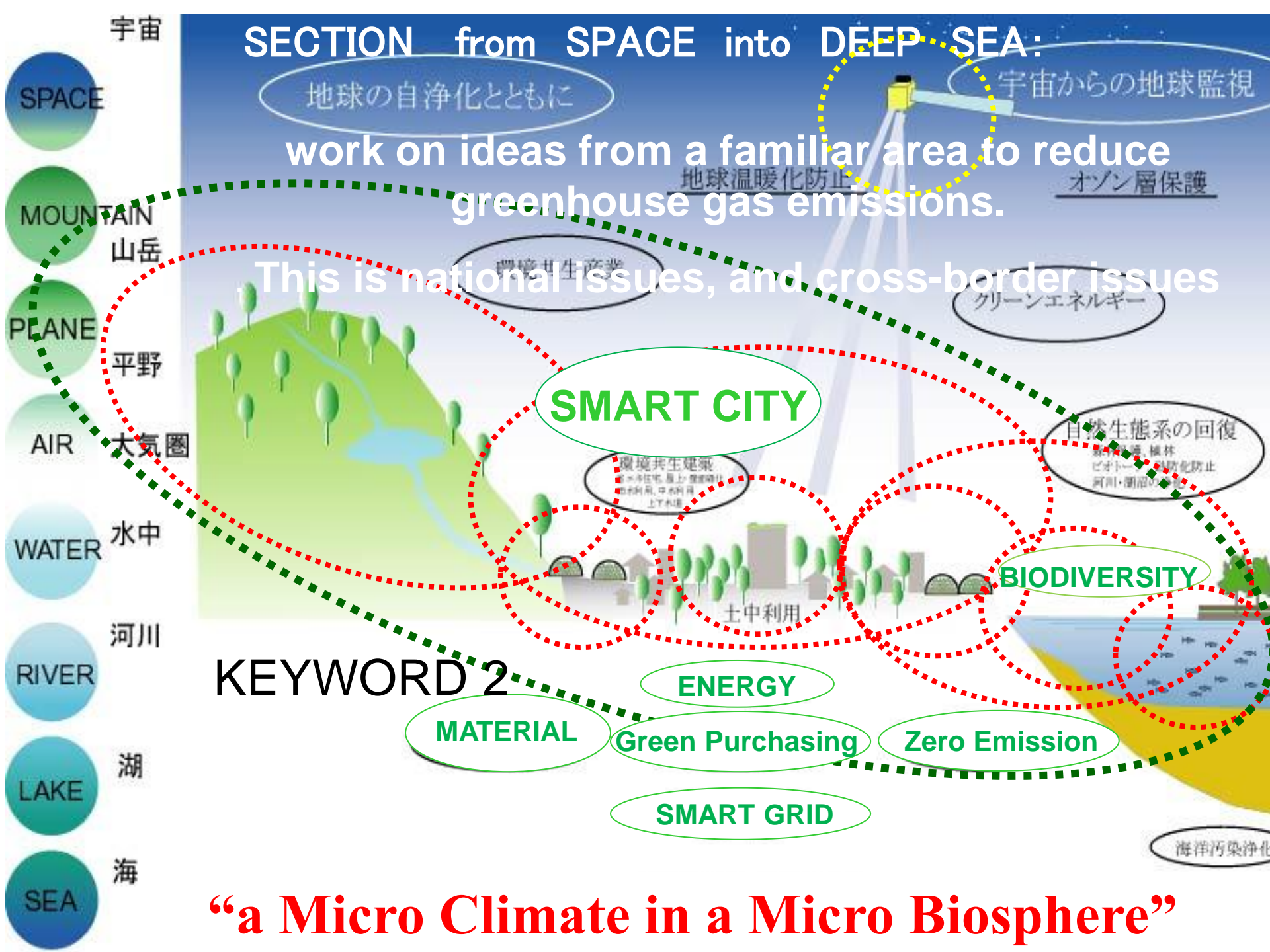
COMMUNITY SOCIAL RESPONSIBILITY

個人の社会的責任

CITIZEN SOCIAL RESPONSIBILITY

子供の社会的責任

CHILDREN SOCIAL RESPONSIBILITY



SECTION from SPACE into DEEP SEA:

地球の自浄化とともに

宇宙からの地球監視

work on ideas from a familiar area to reduce greenhouse gas emissions.

地球温暖化防止

オゾン層保護

This is national issues, and cross-border issues

環境共生産業

クリーンエネルギー

SMART CITY

環境共生建築
 > 半住宅、屋上・壁面緑化
 雨水利用、中水利用
 上下水道

自然生態系の回復
 森林・河川・湖沼の回復
 生物多様性の回復

BIODIVERSITY

ENERGY

Green Purchasing

Zero Emission

MATERIAL

SMART GRID

KEYWORD 2

海洋汚染浄化

“a Micro Climate in a Micro Biosphere”

3 ; Hypothesis for Future of Highly Developing Xi' an

**Creates Future Xi' an 2020-2050
by Amplifying Smart Potentialities of Xi' an Now**

**1 - Target Level: 800,000 Peoples Employment, Lower CO2,
Simultaneous Achievement with “Progress & Legacy, Culture & Aesthetics”**

2 - Strategy : Active & 3-Dimensional City by 8 City Ideals & 6 City Managements

3 - Plan of Action :

**1 Tourist City with Heritages , 2 Future Intelligent Science City
3 Design, Arts & Education City, 4 Biomass City with Life Forms**

**4 - Target Area : Construct Excellent Future Xi' an 2020-2050
Create The Mental Rich Society with Smart Environmental Load**

**5 - End Result : Create Future Model City of Heritage
for China, Inland Asia and World.**

Hypothesis for Future of Highly Developing Xi' an

**Creates Future Xi' an 2020-2050
by Amplifying Smart Potentiality of Xi' an Now**

1 Target Level :

**800,000 Peoples Employment,
Lower CO2,
Simultaneous Achievement of
“Progress & Legacy,
Culture & Aesthetics”**

3 Plan of Action :

**Tourist City with Heritages
+ Future Intelligent Science City
+ Design, Arts & Education City
+ Biomass City with Life Forms**

2 Strategy :

**Active & 3-Dimensional City
with Matured Infrastructures
by 8 City Ideals & 6 City
Managements**

4 Target Area :

**Construct
Excellent Future Xi' an 2020-2050
-
Create The Mental Rich Society
with Small Environmental Load**

5 End Result :

**Create Future Model City
for China, Inland Asia and World.**

13 DINASTIES

BC1100

西周 XIZHOU、

BC221

秦 QIN、

前漢 QIANHAN、

新、

後漢、

晉、

前趙、

前秦、

後秦、

西魏、

北周、

隋 SUI、

唐 TANG

秦 咸陽城

QIN HANYAN CITY

BC221-BC207

漢長安城

HAN CHANGAN CITY

BC206-AD195

秦 阿房宮

唐 長安城

TANG CHANGAN CITY

618-907

Xian is a Great Symbol of World Heritage & Culture
Xi'an has the history of 13 Dinasties- from BC1100
西周 Xizhou、BC221 秦 Qin、前漢 Qianhan , 隋 Sui、
唐 Tang 618-907, 西安 city wall now 明 Ming 1369 ...

Historical City is a Contemporary City & Future City

經濟技術開發區

生態環境開發區

唐 大明宮

TANG DA MINGGON

西安現城壁 明 1369 · 清城壁

XI' AN CITY from MING 1369

西安高新技術產業開發區

閻良國家

航空高技術產業基地

Jinghe

Hsin-chu

Huokou

San-ch'iao



西安經濟技術開發區

XI'AN ECONOMIC & TECHNOLOGY DEVELOPMENT ZONE

Central Business District

漢長安城遺址
HAN CHANGAN CITY

唐大明宮遺址

TANG DA MINGGON

西安駅

滻灞生態區

CHAN-BA ECOLOGICAL DISTRICT

● 明西安城遺址

● XI'AN MING CITY

**EXAMPLE SITE of
XI'AN HISTORIC &
NEW DEVELOPMENT AREA**

西安高新技術產業開發區
Xian High-Tech Industries
Development Zone (XHTZ)

曲江新區

XI'AN QUIJIANG NEW DISTRICT

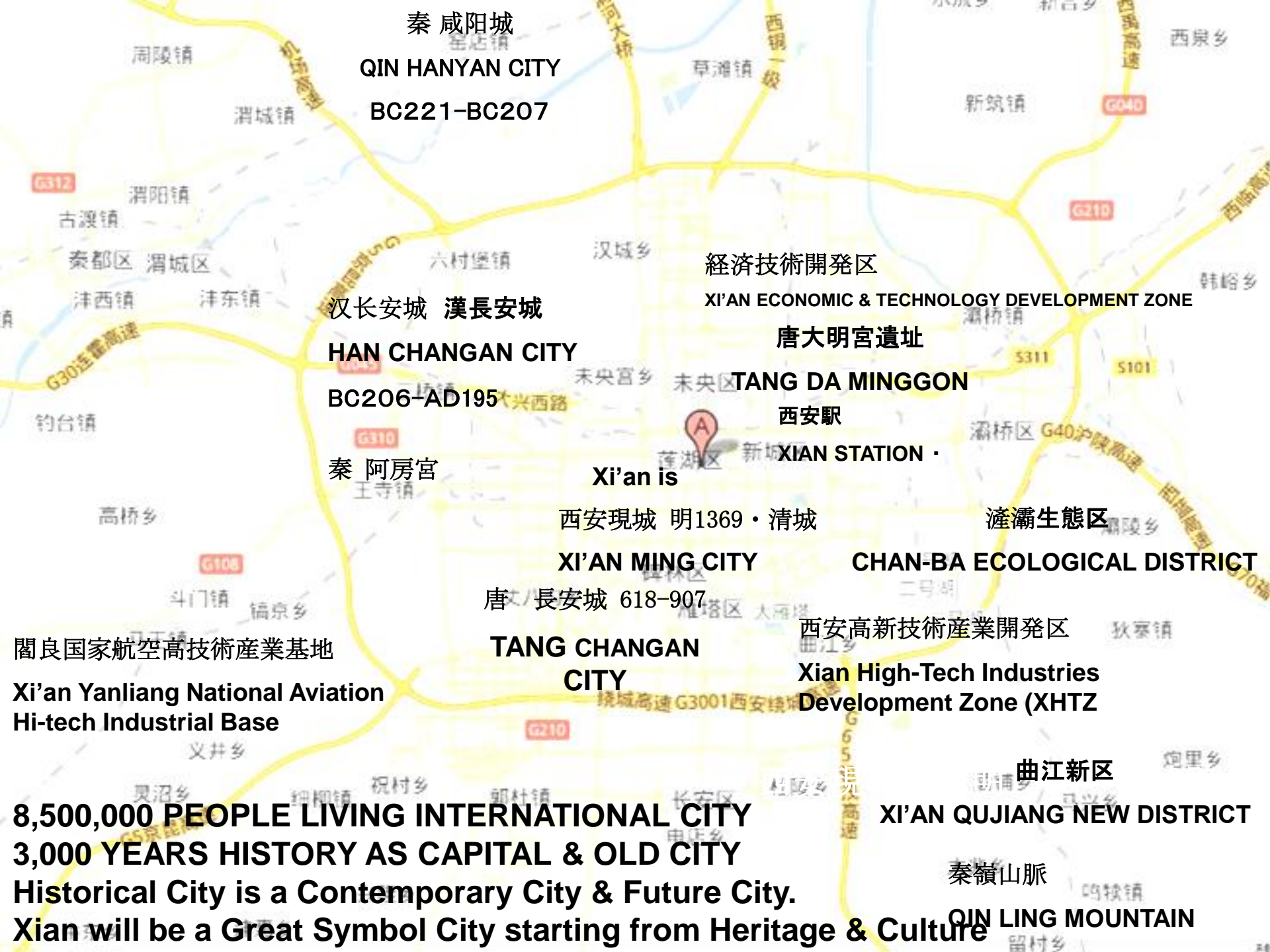
閻良國家航空高技術產業基地
Xi'an Yanliang National Aviation
Hi-tech Industrial Base

西安國家民用航天產業基地

XI'AN NATIONAL CIVIL AEROSPACE BASE

Also We can find New District:

Xi'an Economic & Technology Development Zone, Xi'an Qujiang New District, Xian High-Tech Industries Development Zone (XHTZ), XI'AN NATIONAL CIVIL AEROSPACE BASE, Xi'an Yanliang National Aviation Hi-tech Industrial Base, Chan-ba Ecological District.



秦 咸陽城
QIN HANYAN CITY
BC221-BC207

漢長安城 漢長安城
HAN CHANGAN CITY
BC206-AD195

經濟技術開發區
XI'AN ECONOMIC & TECHNOLOGY DEVELOPMENT ZONE

唐大明宮遺址
TANG DA MINGGON

西安站
XI'AN STATION ·
Xi'an is

西安現城 明1369·清城
XI'AN MING CITY

滄灞生態區
CHAN-BA ECOLOGICAL DISTRICT

唐長安城 618-907
TANG CHANGAN CITY

西安高新技術產業開發區
Xian High-Tech Industries
Development Zone (XHTZ)

閻良國家航空高技術產業基地
Xi'an Yanliang National Aviation
Hi-tech Industrial Base

8,500,000 PEOPLE LIVING INTERNATIONAL CITY
3,000 YEARS HISTORY AS CAPITAL & OLD CITY
Historical City is a Contemporary City & Future City.

曲江新區
XI'AN QUJIANG NEW DISTRICT

秦嶺山脈
QIN LING MOUNTAIN

Xian will be a Great Symbol City starting from Heritage & Culture

Now These are the Important subjects for rapid developing Xi'an.
 Create New Xi'an Life by Editing City under Activating the Smart Potentiality of Xi'an.
 City Images & Plan of Action : 1:Tourist City with Heritages 2; Future Intelligent Science City
 3; Design, Arts & Education City 4; Biomass City with Life Forms
 – Balanced development for Primary to Tertiary Industries.
 Starting from Heritage protection & Tourism,
 Editing City with Suitable New Symbols at suitable areas.
 Managing Efficient Carbon Society as Biomass City.
 Xi'an also be a Smart Primary Industries - foods Base. Food is important Industry for Future.
 Create & Increase Peoples Employment for Sustainable Society.
 Mass Transportation - Subway Network will accelerate Smart Development for Xi'an.



8 IDEALS 6 MANAGERMENTS



4 ;
About Strategy
Future XI' AN 2020-2050

By 8 City Ideals & 6 City Managements

Towards Creating

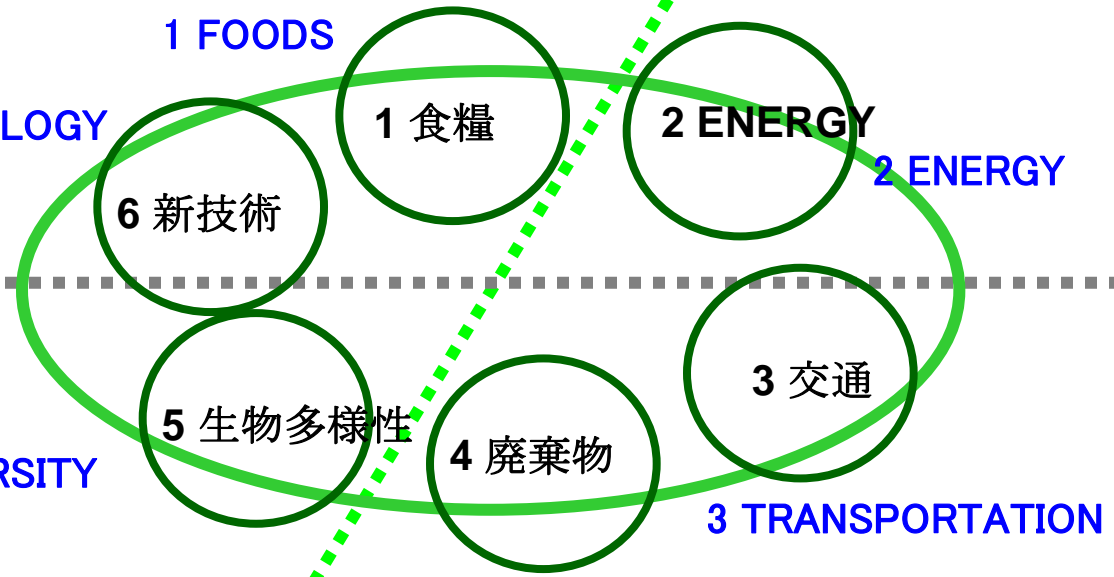
Active & 3-Dimensional City

with Matured Infrastructures,

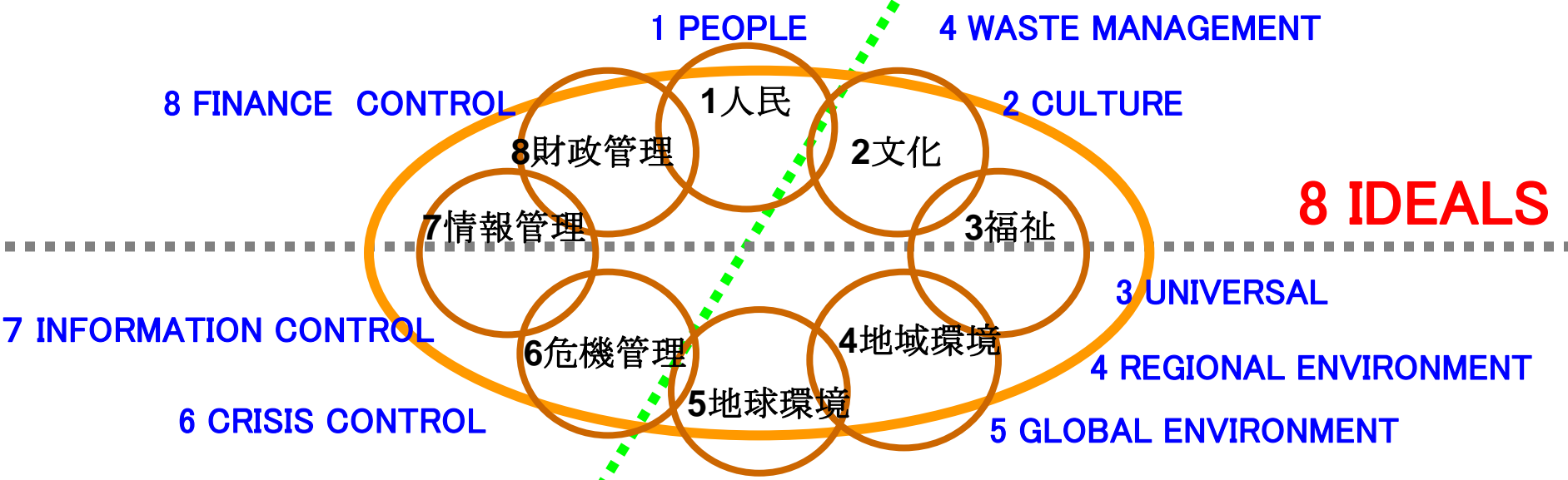
NATURE BY A SOLAR SYSTEM

MAN MADE SOCIETY

6 MANAGERMENTS



8 IDEALS



INFRASTRUCTURE MOBILITY ENERGY WATER EDUCATION CULTURE HISTORY

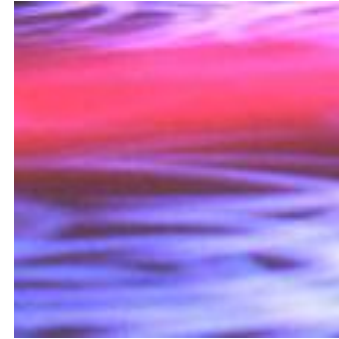
TRANSFER PEOPLE'S ACTIVITY

create next living scene with peace of mind

ECOLOGY ,NEW INDUSTRY ,NEW CULTURE,
NEW SHOPPING ,NEW SIGHT SEEING,
NEW BUSINESS

with

GOOD INFORMATION,
CIRCULATION CONCEPT,
GLOCAL LIFE STYLE

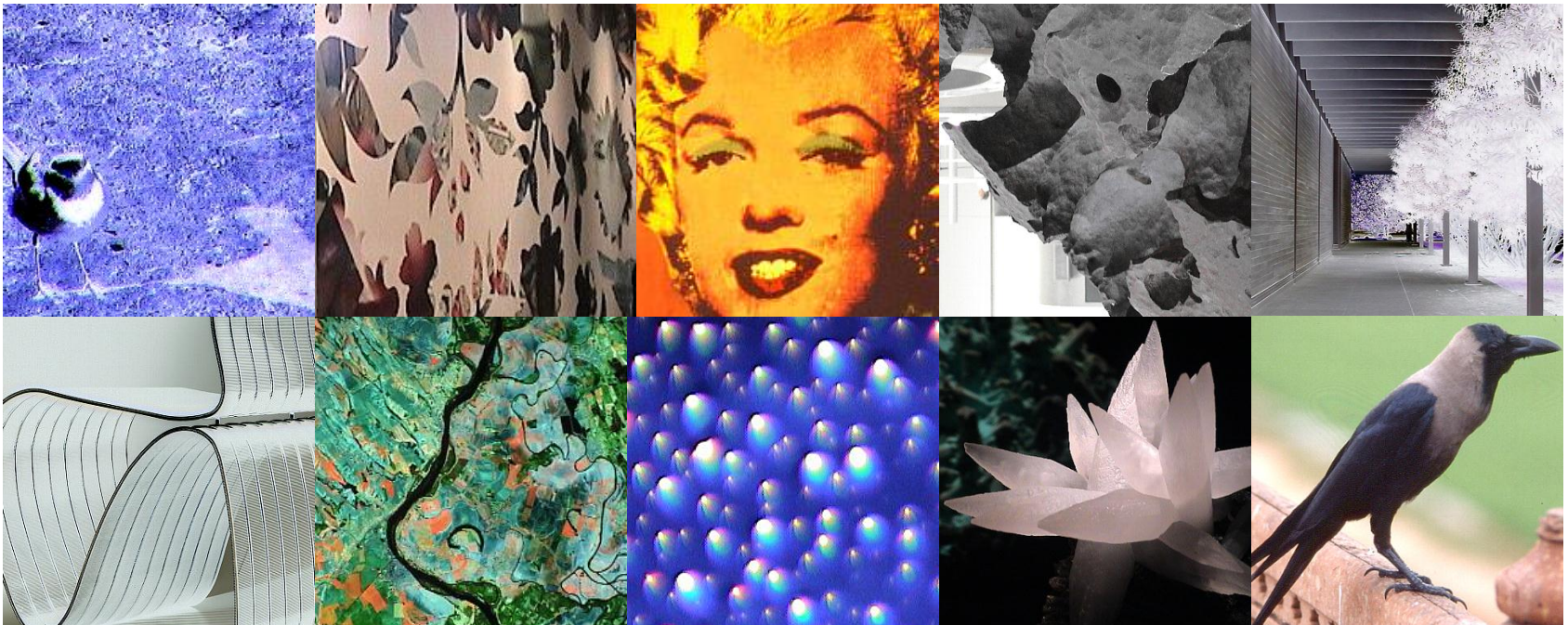


NATURE

ART

DESIGN

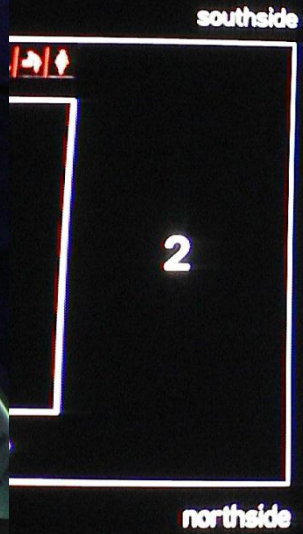
SCIENCE



1 People Ideal

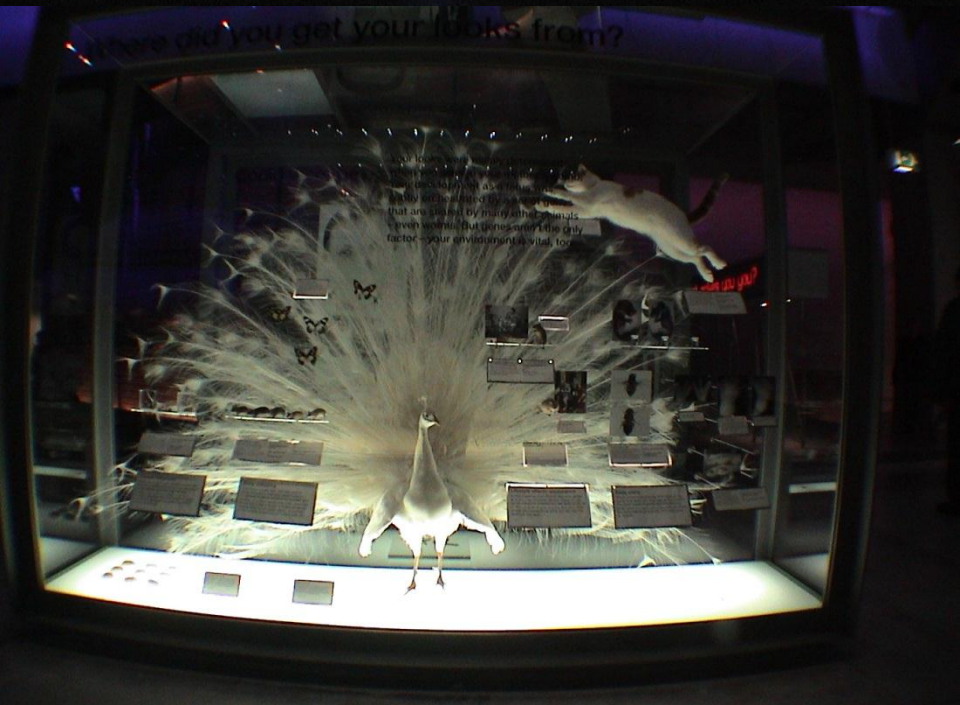
2 Culture Ideal

Activate Various Media



3	in future
2	digitopolis
1	who am I?
G	antenna pattern pod virtual voyages imax deep blue café
B	launch pad

deep blue cafe 2002 LONDON





3 Universal Ideal HEALTH & WELFARE



Creates Clean Pedestrian City

4 Regional Environment Ideal





5 Global Environment Ideal



PHOTOSYNTHESIS FIX CO₂ & SUPPLY OXGEN
DESIGNING BIOMASS MATERIALS

GREEN & WATER SHARING

AGE of LANDSCAPE DESIGN for SUSTAINABLE REGION & PLANET

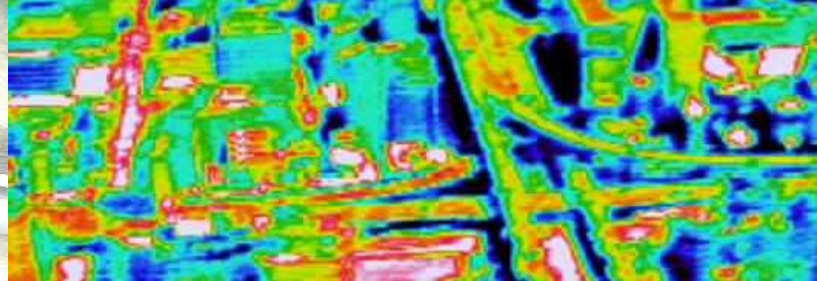


表1. 4-9 単木の年間総CO₂吸収量（総光合成量、U_{CO2}）概算表
単位：kgCO₂/yr

幹径(cm)	樹高(m)	落葉広葉樹高木	常緑広葉樹高木	中・低木
2cm	2~ 2	18	11	2
3	2~ 2	32	21	5
4	3~ 3	53	35	11
5	3~ 3	70	53	14
10	4~ 5	250	180	53
15	6~ 7	530	320	140
20	8~10	700	530	—
25	10~13	1100	700	—
30	12~16	1400	1100	—
40	16~21	2500	1800	—
50	20~25	3500	2500	—

高木はDBH（胸高直径）、中・低木はDO（根元直径）を用いる。
樹高は、（強度の剪定を受けているもの）～（剪定の軽微なもの）を示す。

Consumi (litri/100 km) ciclo combinato: 6,0 (1.9 JTDm 120 CV) - 11,6 (3.2 JTS Q4 260 CV). Emissioni CO₂ (g/km): 159 (1.9 JTDm 120 CV)

275 (3.2 JTS Q4 260 CV)

Climate Change

CAR EMISSION CO₂ 150-300gr co₂/km & ABSORPTION CO₂ by TREES

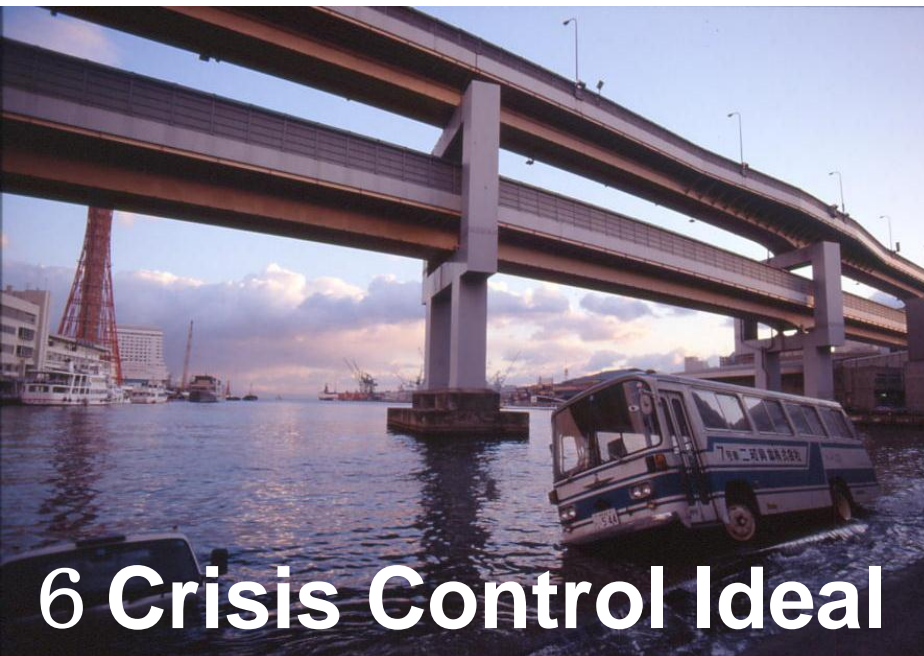
TREES CO₂ FIXING 45.5kgCO₂/yr tree 10H CAR exhaust CO₂ 150gr co₂/km TREE=CO₂absorption+TEMP 1 CAR= 10,000km/yr =1.5tCO₂/yr=33TREES. 675,000 CARS=1,000,000 tCO₂/yr. 8,000TREES/30km ROAD @7.5m*2ways (from center of OSAKA to foot of mountain =30km) 2,800 ROADS of 30km. (data base 7th OSAKA PREF.TRAFFIC PLAN)

5 Global Environment Ideal 2

275 (3.2 JTS Q4 260 CV)



from EARTHQUAKE KOBE 19950117 0547



6 Crisis Control Ideal



7 ; Information Control Ideal

INTELLIGENT ICT :

INFORMATION COMMUNICATION TECHNOLOGY

Integrate social management through computer network. Save Energy more than 20%.. Available for smart heritage protection & tourism.

1 ; **STRATEGY** : Thinking about city activity for next age.

Consider the future of the city and perform optimization by the function differentiation, and the drafting of a feasible measure carries it out concretely. Strategy consulting, building a framework of collaboration with government and business, to allow visualization of the measures.

2 ; **TRANSPORT/ MOBILITY** : What better vehicle to reduce commuting.

Provide accurate information to urban planners and traffic police, which intelligent transportation within the city in general. The alleviation of traffic congestion, improve the quality of life of citizens and business productivity. Conduct a comprehensive support available, or other means of transportation and taxi-bus Bike Transportation subway changes with the progress of development.

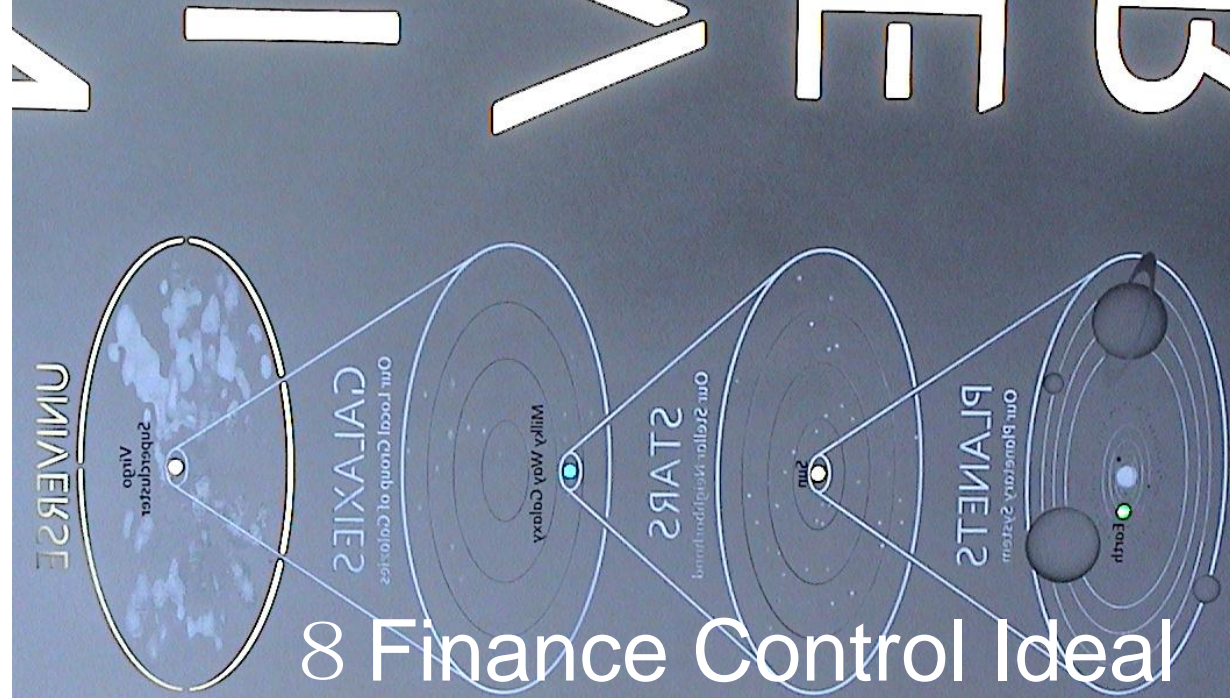
3 ; **ENERGY / UTILITY** : Energy utilities (electricity, gas and water), concrete, captures the scene as a living system to expand as heat and air, water. Get real-time information on energy use. Including the use of solar panels also provide management, energy trading and flexible, allowing you the responsibility. The user can use various utilities. The deployment of intelligent energy saving lives by getting an optimal solution.

4 ; **MEDICAL SERVICE**: ntelligent systems and health services. Prediction of disease prevention, optimal medical treatment can be explored. It cooperates at a patient's more exact selection. It is a result of effective use of data. A not less than 50% reduction of the cost of medical treatment can be desired.

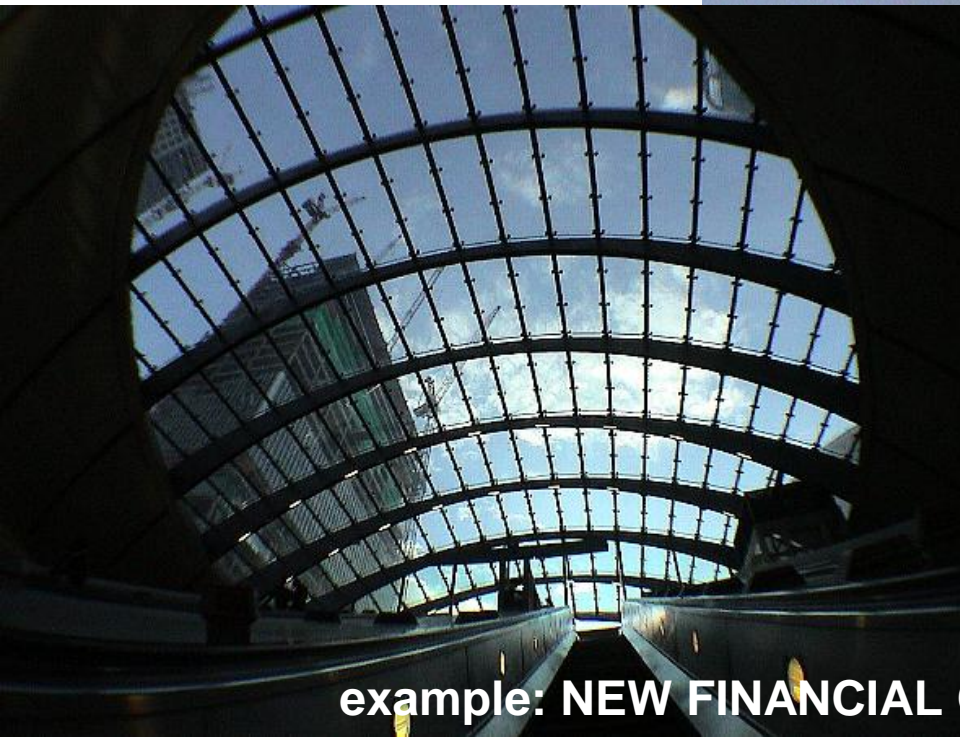
5 ; **CRISIS CONTROL**: The intelligent city, as well as to address and advance the prevention and prediction through the effective use of advanced technology and regional data. Comprehensive support is available for emergencies and other crimes. Will reduce the administrative budget.

6 ; **EDUCATION**: Evaluate and guide a student systematically in each educational facilities, harnessing the feature of an organization. Various tools are used and educational instruction is possible at internal and external various places. By preparing required equipment, a more wonderful result is pulled out. It is an intelligent education system.

7 ; **GOVERNMENT**: Government to build an intelligent service system, to service all residents to smooth relations. Share information, promote collaboration advances. The optimized decision-making authority and government information officials.



8 Finance Control Ideal



example: NEW FINANCIAL CENTER with LIVING SPACE



**About
Managements**

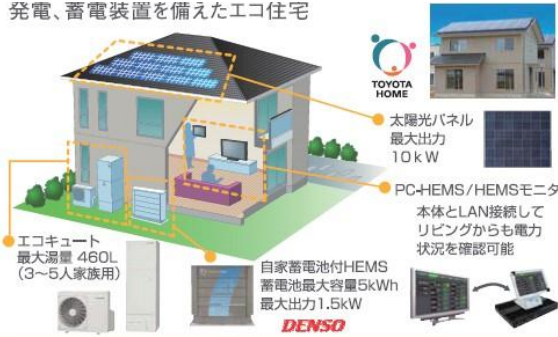


1 Foods Management



SMART HOUSE

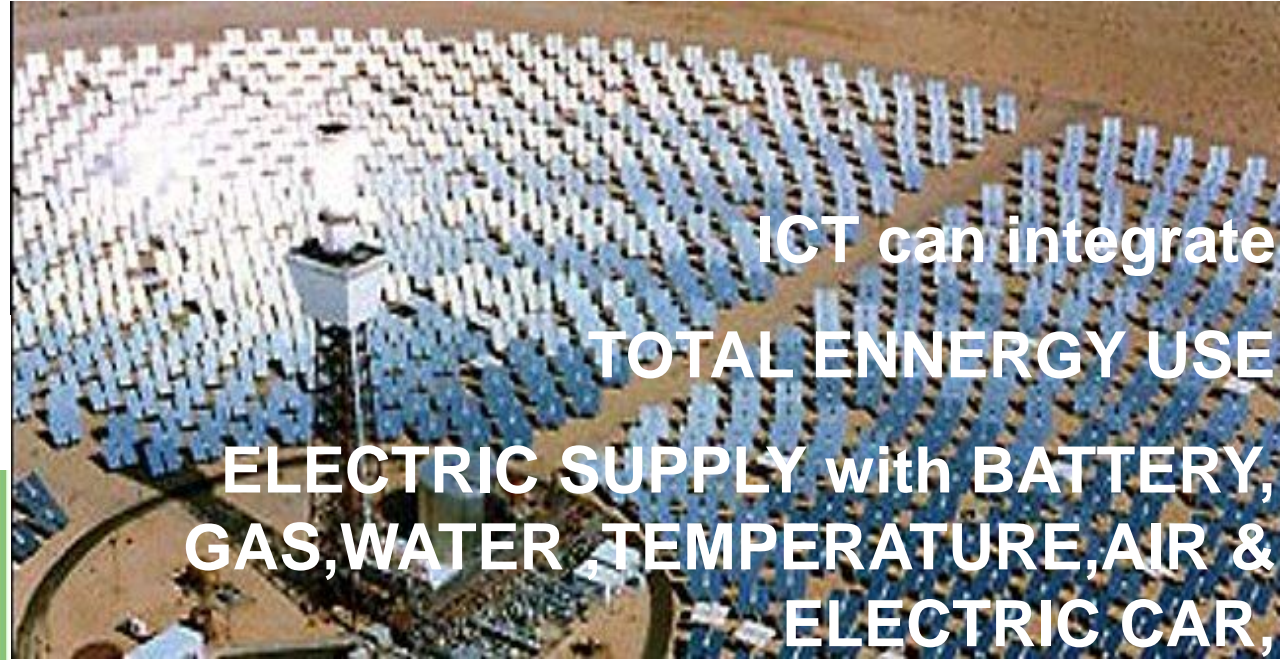
発電、蓄電装置を備えたエコ住宅



PHV plug in ELECTRIC CAR

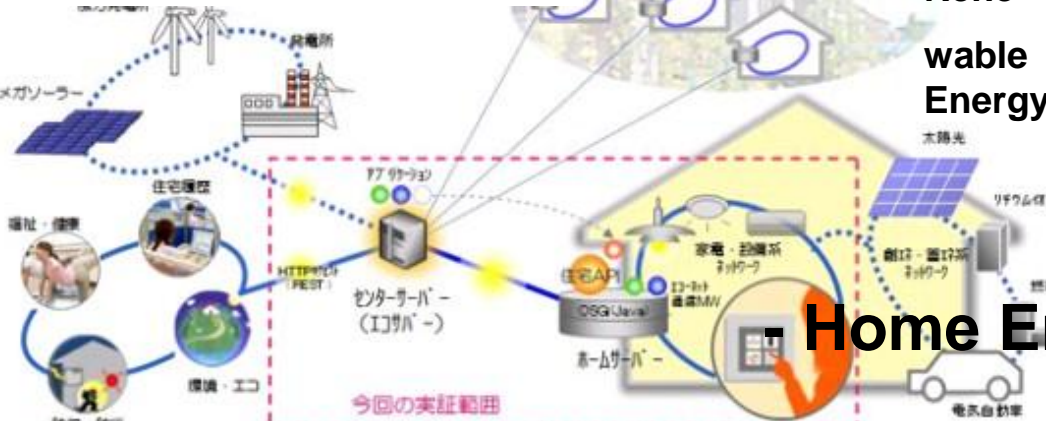


2-1; Energy Management

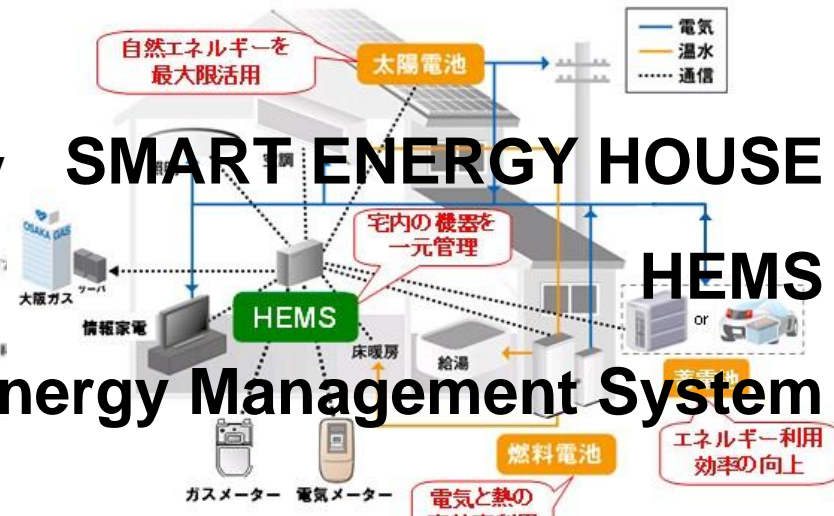


ICT can integrate
TOTAL ENERGY USE
ELECTRIC SUPPLY with BATTERY,
GAS, WATER, TEMPERATURE, AIR &
ELECTRIC CAR,

SMART GRID



SMART ENERGY HOUSE



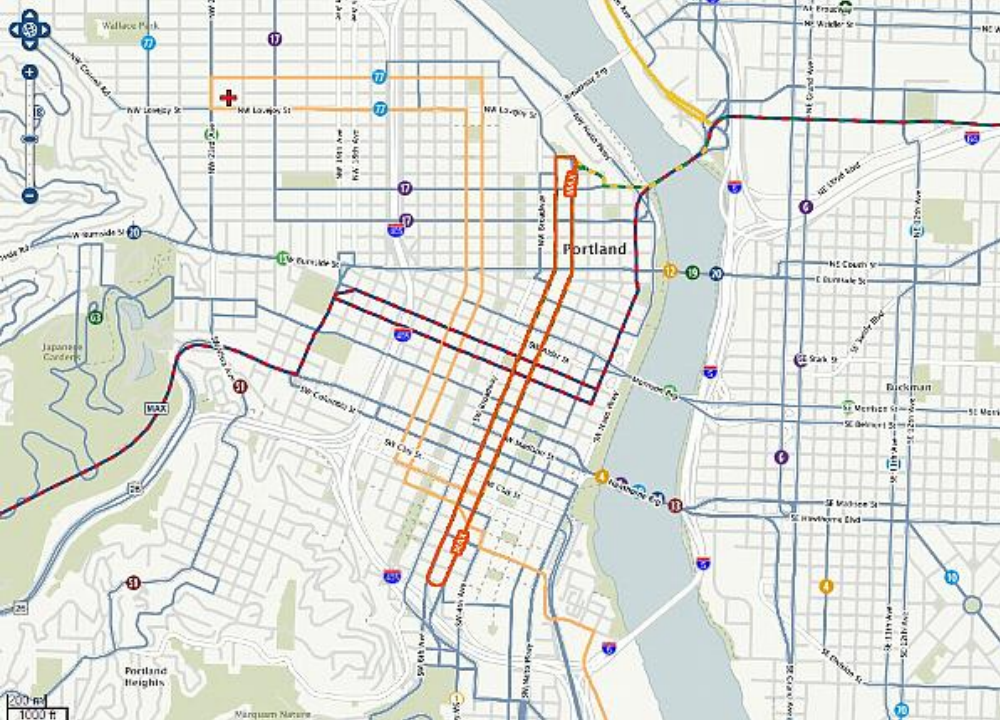


2-2; Energy Management WATER

LANSCAPE DESIGN
NOT ONLLY HUMAN



3, Transportation Management



PORTLAND TriMet SYSTEM

TriMet provides public transportation in the Portland, Oregon, metropolitan area.



It's easy to get around on TriMet using buses, MAX Light Rail, WES Commuter Rail, and the Portland Streetcar.



Hybrid Vehicle Use

現在構想中のハイドロジェン車。スタルクならではのスタイリッシュかつ未来を感じさせるデザイン。



4; Waste Management

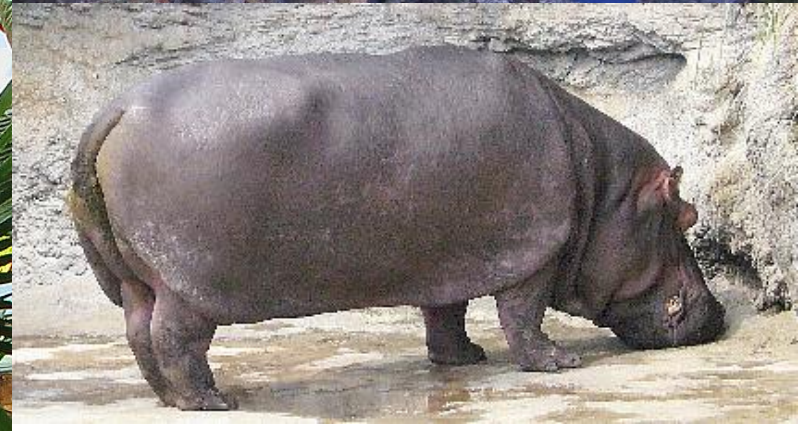




Seeds
Management



5; Biodiversity Management





SPACE SHUTTLE LAUNCH SITE



6; New Technology Management

5 ;
About Plan of Action
Future XI' AN 2020-2050

5-1 Tourist City with Heritages

5-2 Future Intelligent Science City

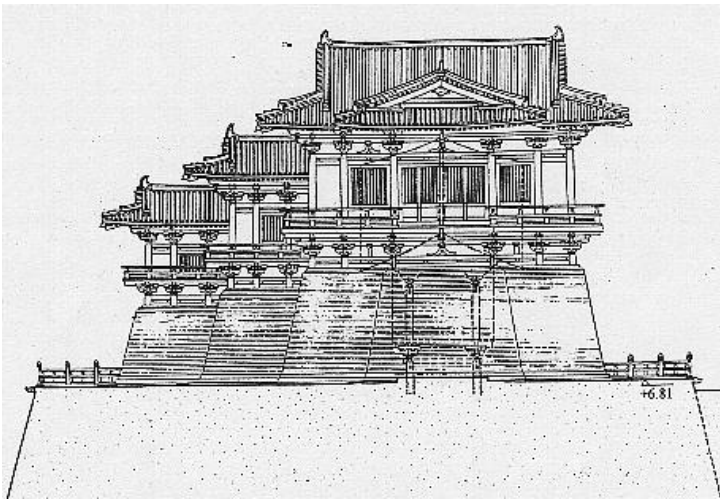
5-3 Design, Arts & Education City

5-4 Biomass City with Life Forms

1 Tourist City with Heritages



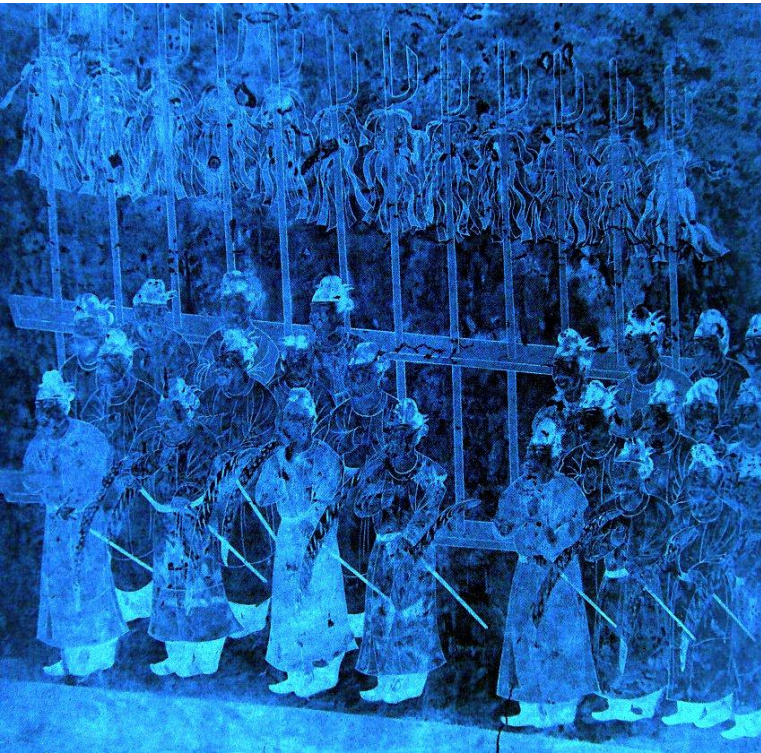
The present historical legacy are ruins, literature, and cultural heritage.
Creates The Heritage Archive & Anatomy 3D Strategy Center.
3DARCHIVE technology aims ruins excavation disclosure.



**Create The Heritage Archive & Anatomy
3D Strategy Center**



**3D CAD Archive Project can create
Walk Through the PAST.
Mixed Reality Warp Time & the Space.
We can Travel to Ancient Age.**

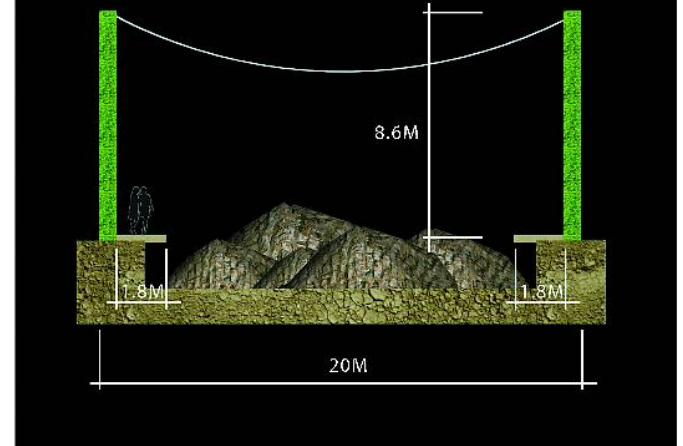
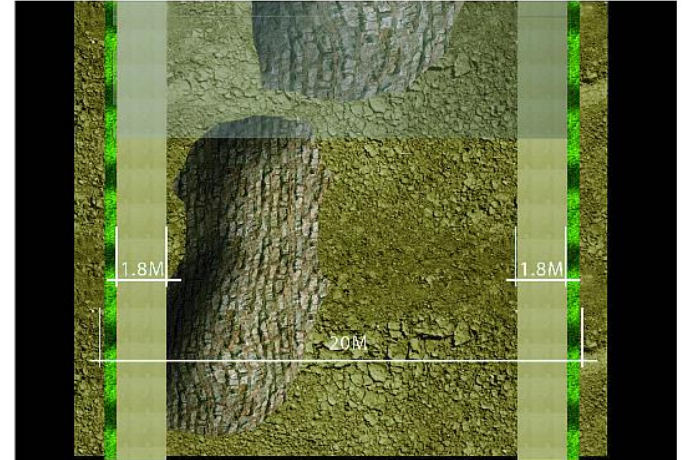
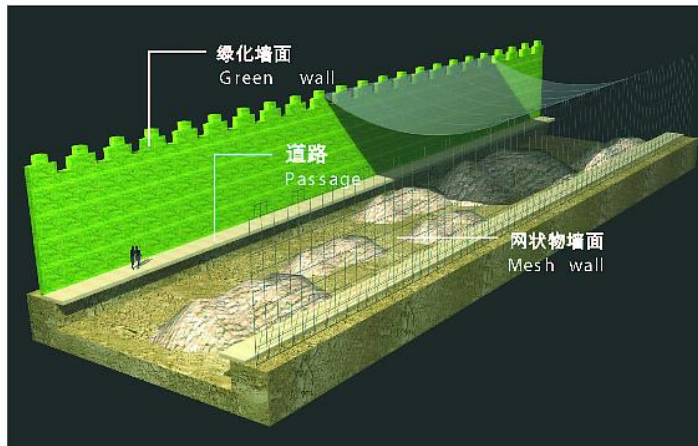


1WEEK-10DAYS STAY XI' AN PROJECT CREATE NEW TOURISM ENJOY OLD & FUTURE XI' AN

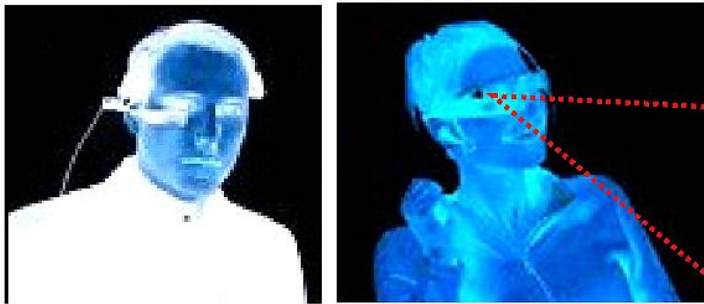
For tourist, ruins resort , accommodations , food & drink facilities , souvenir products are required



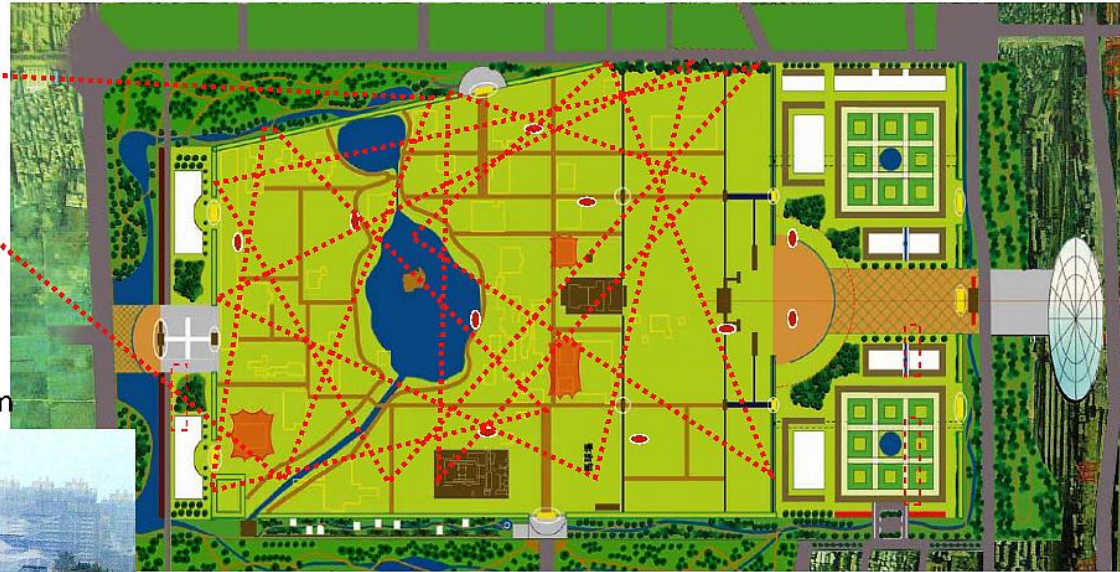
3D Archive Technology aims Ruins Excavation Disclosure



3D Cad Archive Project can create Walk Through the Past.



Monocular
Head Mounted Display
with Global Positioning System



漫游唐朝

WALK THROUGH TANG DYNASTY

● 多媒体信息柱
MEDIA POLE

三维成像计划

将大明宫遗址公园内的景观设计以及各类建筑设施用三维成像技术再现。漫游将成为可能。同时通过动画展示能扩大体验。在特定区域，利用眼镜内部的3D映像，对大明宫区域的再现体验系统进行进化创造。

3D CAD Archive Plan

Evolutionary creation of system to reproduce and enable sensory experience of Da Minggong area through 3D images using goggles. Create 3DCAD of landscape design & architectural facilities. WALK THROUGH is available. It expands the experience by the ANIMATIONN exhibition.

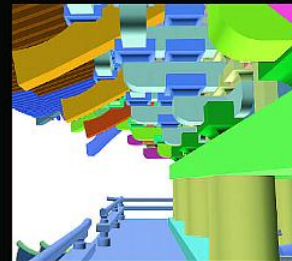
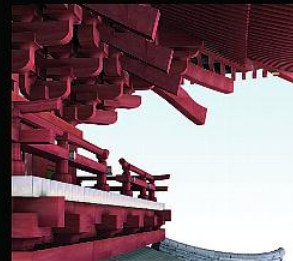
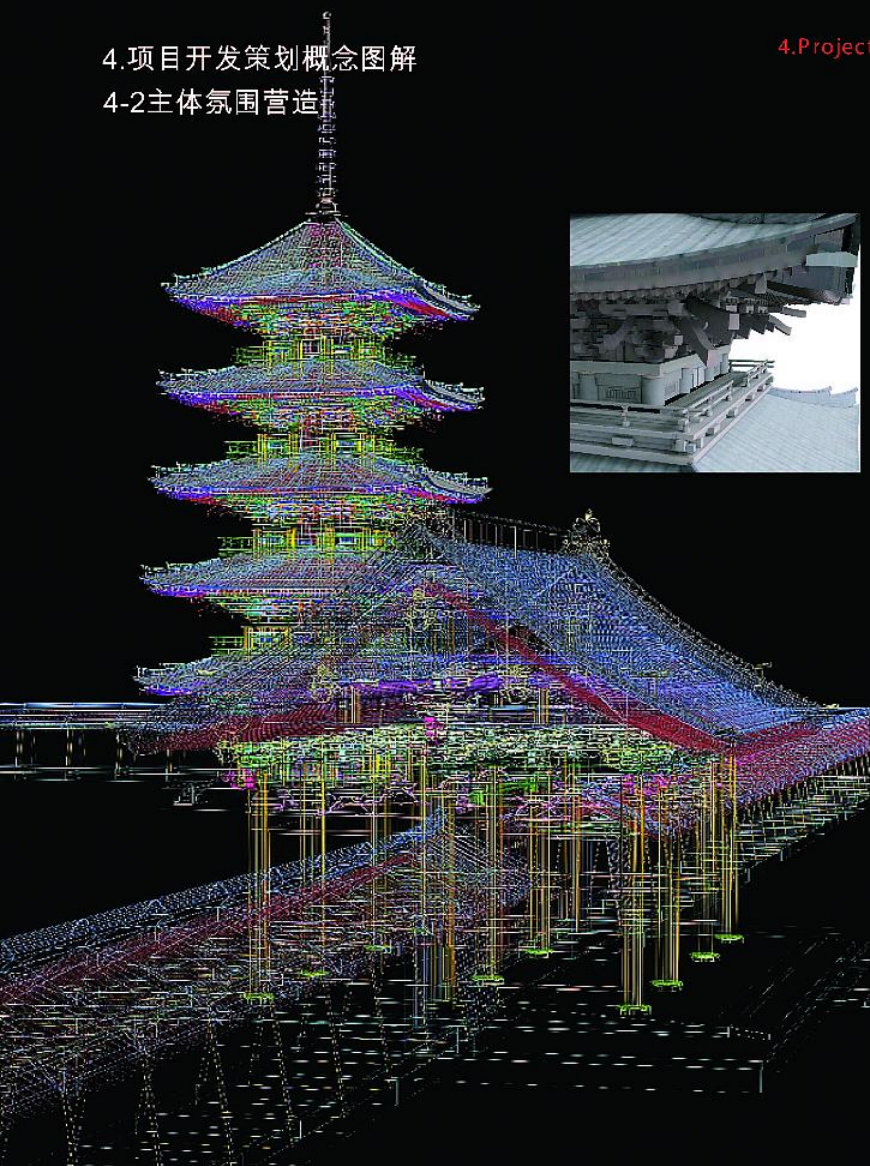


4.项目开发策划概念图解

4-2主体氛围营造

4.Project Development Plan Conceptual Illustration, Commentary, Detailed Plan Explanation

4-2.Composition of conceptual atmosphere



URBANGAUSS

唐大明宫国家遗址公园策划
Pilot Plan of Da Minggong Cultural National Historical Park

Learning from To-ji Project

三维成像

运用混合实景成像技术，复原电脑图像和现在的风景进行合成，构成虚景观。将加有阴影的平面和基本图像用实时柔和阴影表现法，对应实际光源环境，高速生成假想物体的阴影，能做出使人感觉协调的合成图像。这是此技术的一大特色。经过问卷调查，确定了它的可行性。

近年来利用混合实景成像技术，尝试对遗失的文化遗产进行数据复原。此技术利用头戴显示器，可以将现实世界与电脑图像无缝混合在一起。用电脑绘制的文化遗产如同实体出现在现实世界中。

混合实景成像技术有如下3个优点：

1. 能在遗址上表现出复原的模型。（将复原的电脑模型图像在遗址上进行合成，在视觉上，听觉上，现场气氛上达到身临其境的临场感。）
2. 复原图的修正和更改将变的更简单。（能简单的进行电脑模型图像的修改和替换。）
3. 文化遗产的保存和活用能相替。（在不对遗址产生影响的情况下，能有有效的活用。）

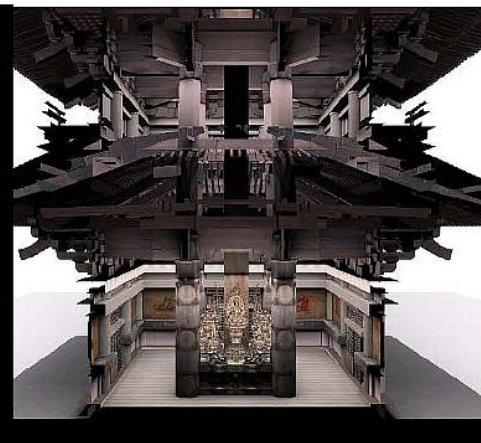
3-D CAD Archive Plan

An evolutionary system will be created to reproduce and enable a 3D imaged sensory experience, viewed through VR goggles, of the Da Minggong area. Landscape design and architectural facilities will be created. Walkthroughs will be available. The animations will expand the experience for the visitor.

Recently, there have been attempts at recreating lost cultural artifacts using MR. The attempts employ MR via a Head mount display (HMD). It is now possible to show these cultural assets from computer graphic images. Using MR (Mixed Reality) technology, the MR contents will be used for the purpose of compositing the current scenery over the scenery from the times of the ancient capital. The images will be produced quickly using an alpha channel foreground on live video to create a soft-shadow effect. The purpose will be to give the viewer a very natural but real viewing experience.

Possible to show a model of the original structures (display of a CG model over the original structure will provide a visual and auditory life-like feeling).

Easy corrections or changes to the restoration plan (the CG model can be easily edited or switched out).



**MIXED
REALITY
WARP
TIME
&
the SPACE**

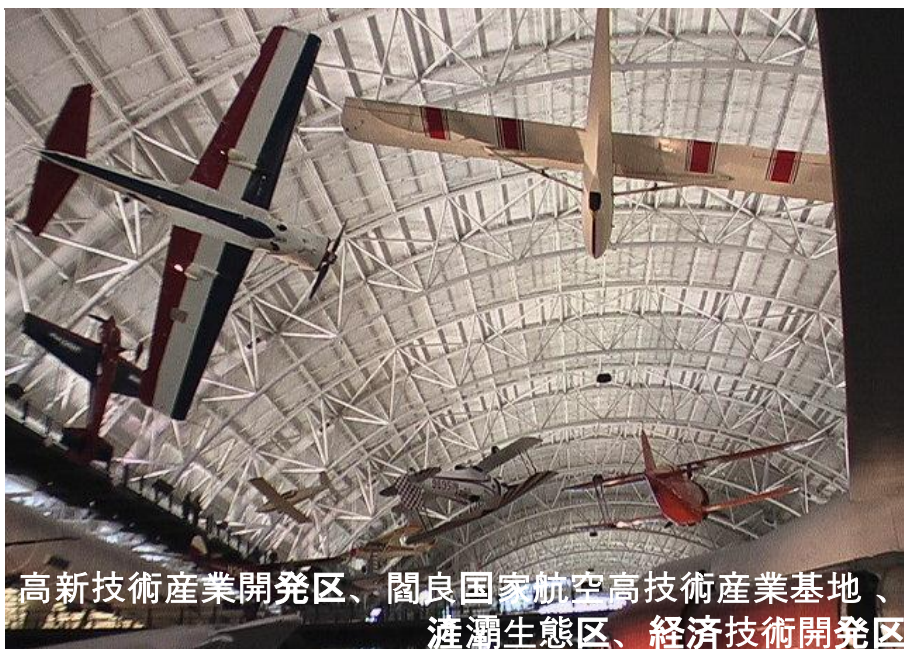
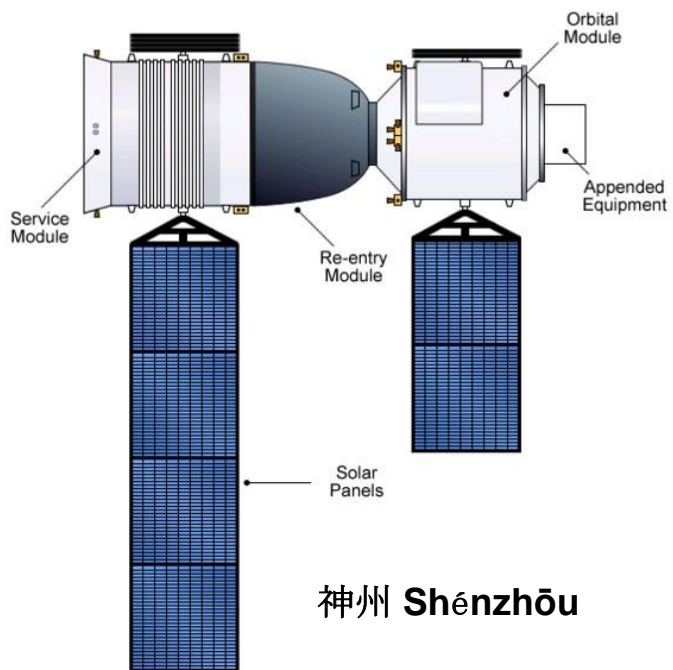
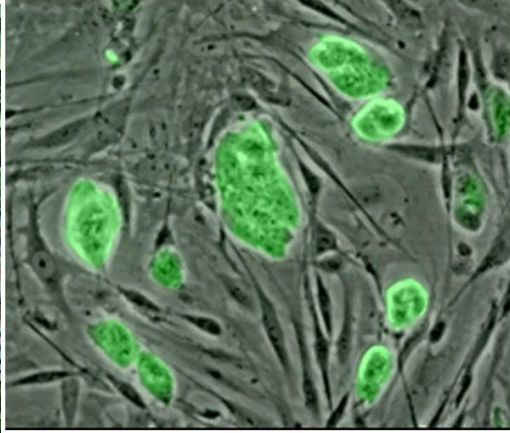
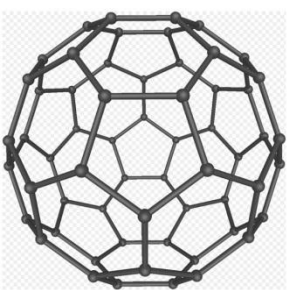
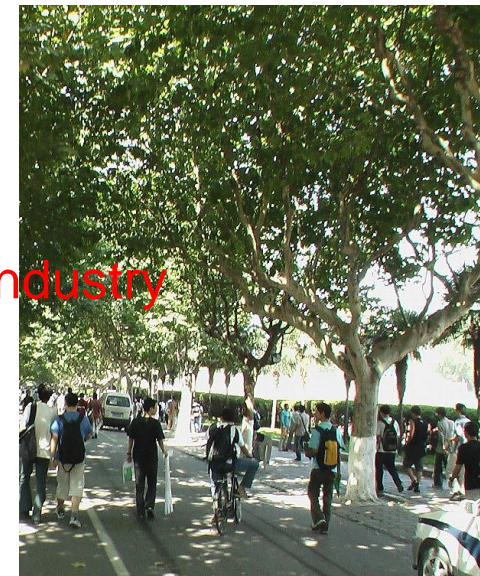


**TRAVELLING
to
ANCIENT AGE**



2 Future Intelligent Science City

New Technology = Eco Solution Science, Biotechnology, Nanotechnology, Aero Space Technology, ++++
Create Science Museum & Aquarium for new technology & industry



高新技術產業開發區、閩良國家航空高技術產業基地、
滄瀾生態區、經濟技術開發區

飛天宇宙服



XI' AN as

Modern Design & Art City

Creates Design & Art Center

Museum ,Galleries & Shops



Painting,
Sculpture,
Music,
Performance,
Movie so on

Modern,
Clasiscs,

Future.



800,000 students means 120,000 students graduate & change every year. Always Xi'an can get excellent new young person & innovations. New generation creates new art & life scene connecting to new technologies.

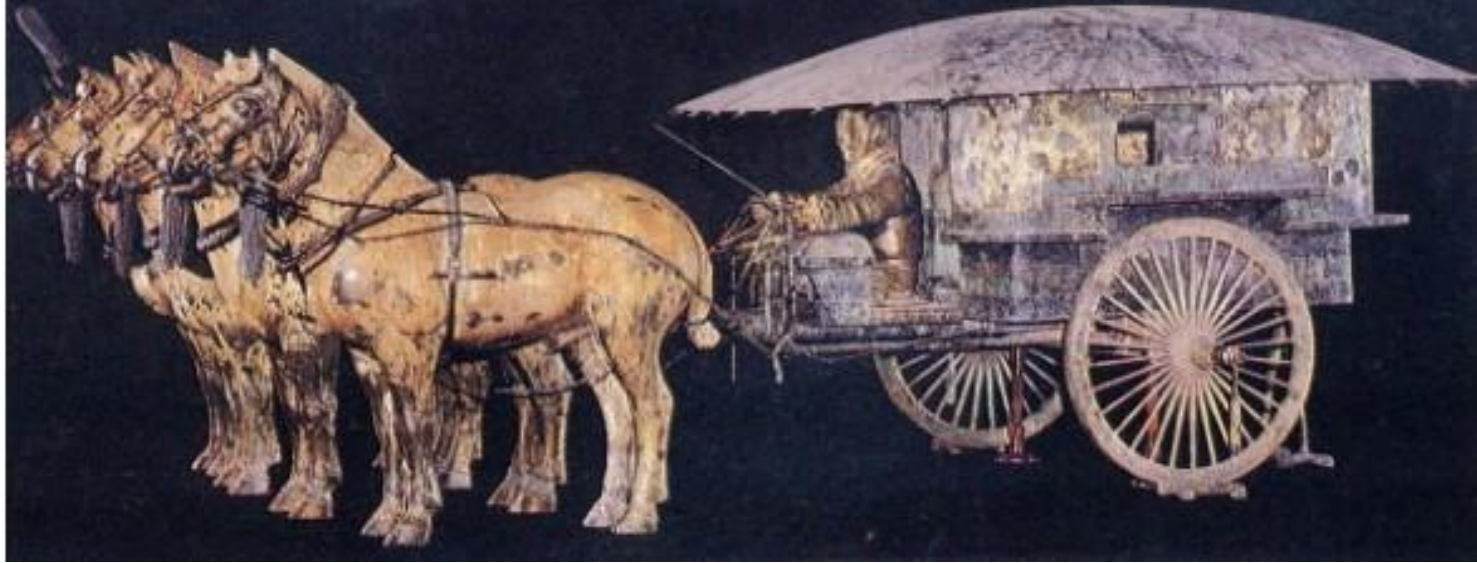


3 Design, Arts & Education City

Design always create from new society & new technology.

Now is the Day, to Design New Era for Xi' an with Real Design work.

We can find Ancient Smart Designed Coaches .



XI' AN is CITY of DESIGN & NEW TECHNOLOGY from QIN DINASTY . BC 200



Electric car from USA AD1910



More Efficient Agriculture by 3D Land Use

Create Agriculture-Biomass Center



4 Biomass City
with Life Forms

Nice Tradition of Trimming



Foods Medicine Bioethanol Bio-plastic Fix CO2
Create Street Landscape & Parks for Fertile Living



The basis of a sustainable society is to exist in harmony with all life forms. Man-made, machine-driven activities are. We need to apply the powerful self-recovery abilities that all life forms by birth. We need to establish urban agriculture, forestry and fisheries.

6; About Target Area

- Construct Excellent Future Xi' an 2020-2050

**Create The Mental Rich Society
with Small Environmental Load**

for Example :

We can find SITE of Museum, Centers & Parks.

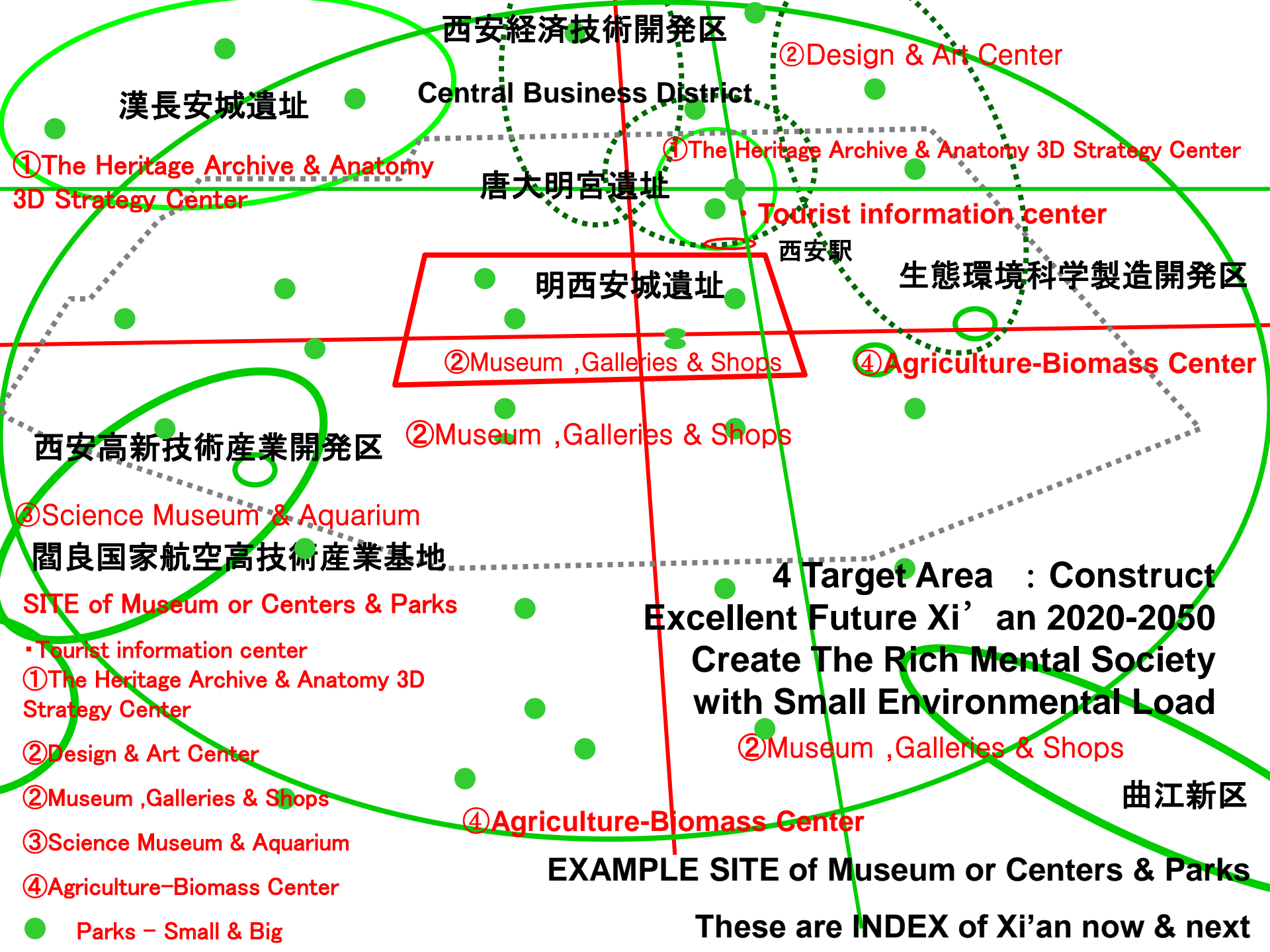
These are INDEX of Xi'an now & next.

1-The Heritage Archive & Anatomy 3D Strategy Center

2-Design & Art Center Museum ,Galleries & Shops

3-Science Museum & Aquarium

4-Agriculture-Biomass Center & Parks



西安經濟技術開發區

Central Business District

漢長安城遺址

②Design & Art Center

①The Heritage Archive & Anatomy 3D Strategy Center

①The Heritage Archive & Anatomy 3D Strategy Center

唐大明宮遺址

• Tourist information center

西安駅

生態環境科学製造開發區

明西安城遺址

②Museum ,Galleries & Shops

④Agriculture-Biomass Center

西安高新技術產業開發區

②Museum ,Galleries & Shops

③Science Museum & Aquarium

閻良国家航空高技術產業基地

4 Target Area : Construct Excellent Future Xi' an 2020-2050 Create The Rich Mental Society with Small Environmental Load

SITE of Museum or Centers & Parks

• Tourist information center

①The Heritage Archive & Anatomy 3D Strategy Center

②Design & Art Center

②Museum ,Galleries & Shops

③Science Museum & Aquarium

④Agriculture-Biomass Center

● Parks - Small & Big

②Museum ,Galleries & Shops

④Agriculture-Biomass Center

曲江新区

EXAMPLE SITE of Museum or Centers & Parks

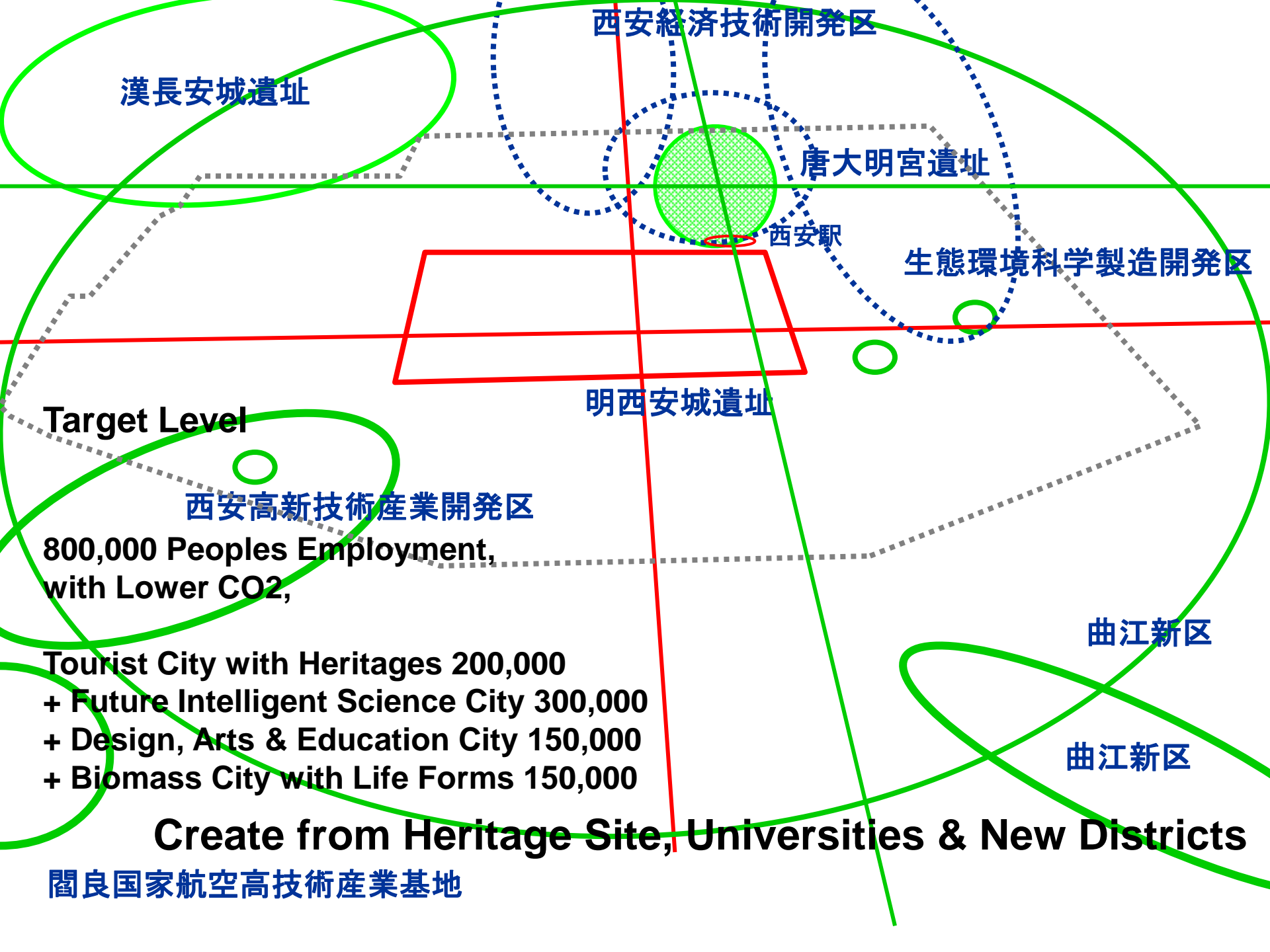
These are INDEX of Xi'an now & next

7; About Target Level - Future Xi'an 2020-2050

**800,000 Peoples Employment
with Lower CO2**

1-Tourist City with Heritages	200,000
2-Future Intelligent Science City	300,000
3-Design, Arts & Education City	150,000
4-Biomass City with Life Forms	150,000

**Create from Heritage Site, Universities
& New Districts**



西安經濟技術開發區

漢長安城遺址

唐大明宮遺址

西安駅

生態環境科學製造開發區

明西安城遺址

Target Level

西安高新技術產業開發區

800,000 Peoples Employment,
with Lower CO2,

- Tourist City with Heritages 200,000
- + Future Intelligent Science City 300,000
- + Design, Arts & Education City 150,000
- + Biomass City with Life Forms 150,000

曲江新区

曲江新区

Create from Heritage Site, Universities & New Districts

閻良國家航空高技術產業基地

8 ; Epilogue : from 5000 YEARS PAST to 5000 YEARS FUTURE

**End Result : Xi'an become Future Active Model City
starting from Heritages & Tourism for China,
Inland Asia and World.**

Completion of 2nd line & 1st line of Metro are great achievement for Xi' an .

I spoke about ignored big factors on important Infrastructures.

**Those are culture-legacy & tourism, advanced education, advanced technology,
primary industries – agriculture, fishery, forestry.**

These factors are already Important potentialities of Xi' an.

**Historical heritage, the culture open to the world like as silk road age,
800,000 students in 37 universities, advanced technologies from aero space & others,
primary industry areas with broad agriculture site.**

By creating Stage Plans for developing these factors.

Xi' an will be one of most matured city by the progressive strategy.

These Photos shows
Old & New Potentiality of Next Xi' an



New Life Style for Health



Traditional Life Style for Health



Unique Living Style, Out of Age



History of Aero Space Technology

for Future of Highly Developing Xi' an

Creates Future Xi' an 2020-2050 by Amplifying Smart Potentiality of Xi' an Now

1 Target Level :

**800,000 Peoples Employment,
Lower CO2,
Simultaneous Achievement of
“Progress & Legacy,
Culture & Aesthetics”**

3 Plan of Action :

**Tourist City with Heritages
+ Future Intelligent Science City
+ Design, Arts & Education City
+ Biomass City with Life Forms**

2 Strategy :

**Active & 3-Dimensional City
with Maturated Infrastructures
by 8 City Ideals & 6 City
Managements**

4 Target Area :

**Construct
Excellent Future Xi' an 2020-2050
-
Create The Mental Rich Society
with Small Environmental Load**

5 End Result :

**Create Future Model City
for China, Inland Asia and World.**

I speak about Hypothesis for Future Xi'an 2020-2050 as Highly Developing & Cultural Historical City. Xi'an has the history of 13 Dynasties - from BC1100. Xi'an creates History of Past-Present-Future everyday from Fengyi 豐邑 Xizhou Era 西周, Changan 長安 Han 漢 Era and Now 西安 Xi'an was & is always Modern & Newest City.

Every Dynasty realized suitable City Style for their suitable Future. They realized suitable Infrastructures. And they created City & Nation with their Various Original Culture not only created by Civil Engineering.

Now we can't imagine next 100 years, because of Global Environmental Problems.

Xi'an has Smart Potentialities starting from Heritage Protection and Tourism, Education, New Technologies, Biomass Society.

5000 years History in China means, we must create 5000 years Future.

I confirm Xi'an will Realize & Creates New Xi'an Life with Culture, Sustainable Progress, Progress & Legacy · Culture & aesthetics As Environmentally Advanced Xi'an Model, Starting from Heritage Protection and Tourism.



End Result :

Xi'an become Future Active Model City
starting from Heritages & Tourism
in China, Inland Asia and World.

EUROPE



北京

西安

XI'AN

OSAKA

KYOTO

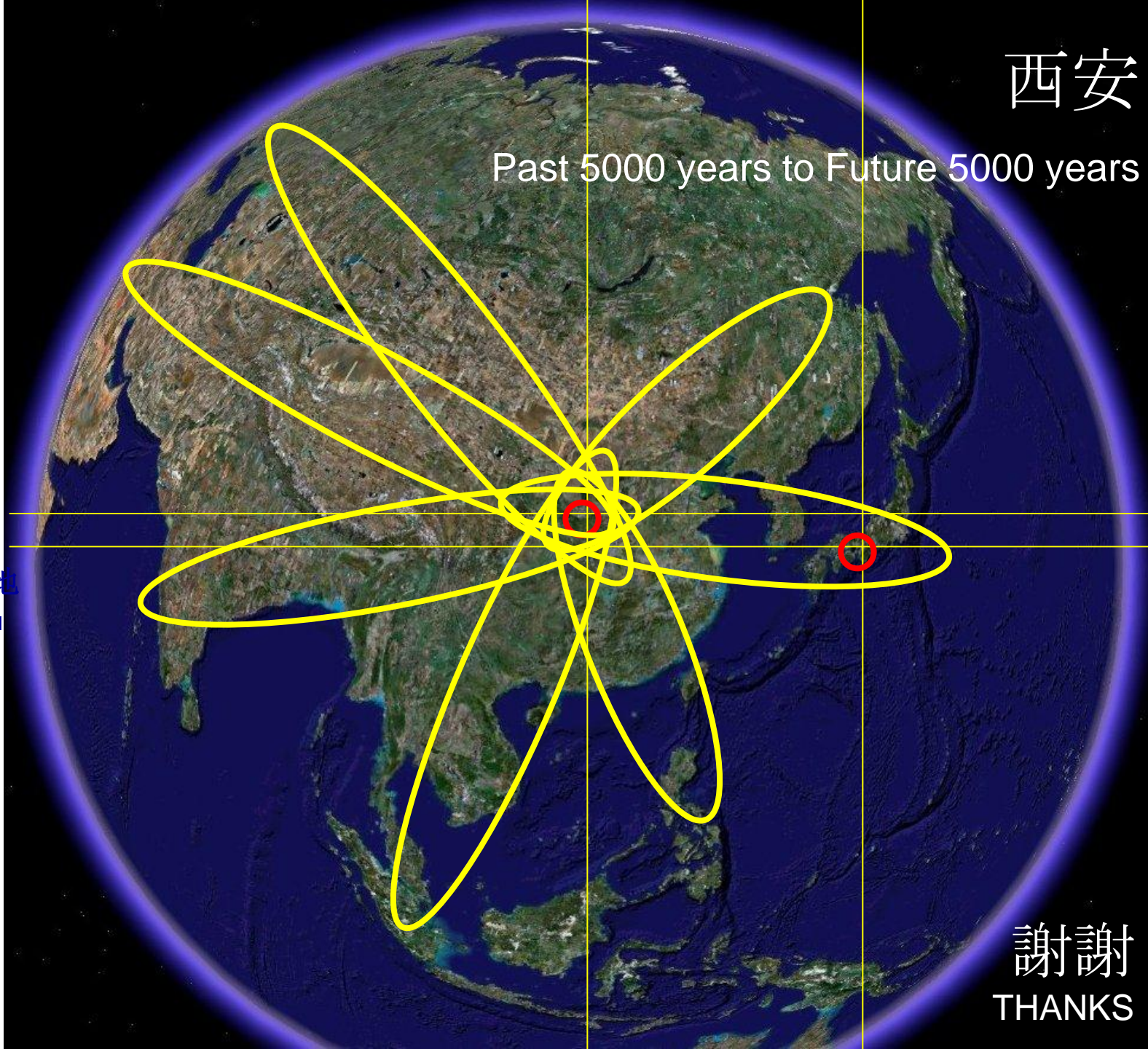
NARA

SILK ROAD

北回帰線

西安

Past 5000 years to Future 5000 years



体现世界

和平的寓意

西安的

历史和交流

XI'AN HISTORY

CULTURAL EXCHANGE

世界遗迹保存

東方的中心

EAST CENTER of

WORLD HERITAGE
PROTECTION

先进科学技术

文化美术的发信地

The PLACE of DISPATCH
on CUTTING EDGE
TECHNOLOGY,ART &
CULTURE

历史都市

现代都市

未来都市

HISTORICAL CITY

CONTEMPORARY CITY

FUTURE CITY

謝謝

THANKS