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/ ᆨ

/

“ ⅄ ”Ặ e ẵ “ ⅄ ”

⅄ ↰ 22 Å̊ ⊢ם ÃA ⅄

ככ ⊃ ⊢ T ˊ Ẵ e “ ⅄

” ώ̣ ẫ ώ ẅ ככ ך 2010

.

⊃ם ~ ⅄ ⊢ם ⊢ ⊢ם ⊢ ⊢ם

⊢ם ˊ T ג̣ ־ ככ ŋ̃

ך Ό Ғ ⊢ם T e ⊢ם ê T

ˊ ˊ ⊢ם ŋ̃ ך ש“ ⅄ T ככ ⊃ ̇ “ ⅄

” ώ̣ ־ T ך “ —— Π

ך ⊢⅞ ג̣ ˊ T ך ־

⊃ T = ך

־ י⊢ ך ♦ ך ⊢ ך ⊢ ⊃ת ↰

⊢ם ê ם⊢ T י י ⊢ T ם⊢

T . Ч ך T e

ֵ ל ת ש

П ג ך

ם T ך ך . y

ְ ֵ T ך " ◖ ה T

2010 4

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1.1

30 ך م ل Ẹ

1.1.1

ڂ ˉ L م ό “ ۸ ”

20 ̣ “ ” ˉ L ά

ẇ ♦ˊ ◗ ڂ e

( )2.14 “ ”

“ ” “ ”

“ ”

1 - 2 “ ”

1 - 3

1979 8

1.1.2 “ ”

ي ا Ă T T щ

سم Ⅵ ـ

ẘ u Ȼ ד ا ד

ا ا ا ڇ ê ي ا ي ا

щ Ą ا مح ˛ β ⅞ T ³ ṭ í ˝H ł

ד

щ 20 80 ʔ ĩ ‟Y

ۥ “ ھ ш T ӒӐ ӷ ӐO

ӒӐ ӒӐ ۥ ۪ ҷ ҷ └ ‘ ӒӐ ҷӣ

ш ҷ .

ۥ ӒӐ – ӣ T

T ӷ ۥ ӒӐ ш ┐

ي └ ۥ ӒӐ ۥ ӒӐ

Ẹ Ó “ ھ ۥ ي └ ┐

Ó ۥ ي └ ┐

“ ⅞ Ⅵ Ⱨ ” ۥ ệ ي

└ ớ ھ Ⱨ Ó Ḟ ۥ ệ ậ

ӣ ۥ Ó T ӒӐ Ӡ ۥ ệ

1.5 к ۥ T ˘ ▉ см 10 ӣ ۥ ệ ┐ см

Ó = ẵ ۥ ệ см 3 000

ӒӐ 99

┐ └ ┘ T ҺҺ ₡ ώ T ӣ ệ

Ó ˄ ˄ ӣ ۥ ệ

┐ ӷ â y T

ۥ . Ó

ۥ щ“ ۥ ӒӐ ” ặ “ ۥ ” щ ي └ҺҺ

ӒӐ

1992 1995

1992

“ ” “

”

“ ” 4

“ ” “ ”

4 10

40

“ ”

2008 “ ”

62 “

”

1.2

1.2.1

20 80 “ Ą ” e ϗ

ϗ “ T ” Ę “ ”

“ ” .

– T ڎ ה ę

T ♦´ щ1949 ϗ1994 ă T

6 358 к Ẃ ώ 815 к Ẃ ˊ 290 к Ẃ ˜ Ɯ

– Ό 1994 55 e 400 ڎ

ę ڃ ئي 800 x ڎ

ڃ ئي

20 80 e “

. Ă T 80%

ώ p 5% ˀ ώ p 1.5%

55 . ڎ ώ щ 43 к Ẃ ϗ13 к Ẃ

55 . ڎ ẽ 28 . e ˜ 1991 ˘ 2.4

e ώ 14 к Ẃ 40

T −− Ą T −−

♂ ↄ ∟

e ˛ T . ♂ p

ך T ך

∟Π ♯Ό ˋ ך

20 80 ˜ϗ 90 ά Ą “ ẇ ך T

T T ” “ ”T ך ڜ T

. ∟ . ∟ך ∓ ˜ϗ

∟ ∟ך “ â ”

T ⊀ ´ ę ę 450 ⊀

700 T ώ ڃ 300 ڃ ئي

ˋ

“ ”

ầ e “ ”

ڜ سم

“ ”

18 “ ”

20 90

1-4

1992 55 2.5 52

“ ”

1995 38

14 18 “ ” 1-5

18 “ ” 1983 ,

1995 32

36

:“

…… ”

18

“ ”

“ ” 5

“ ” “ ” “ ” “

”

1-4 1998 120

——

1-5 1995

“ ”

2 317 “ ” 18

1.2.2 “ ”

“ ”

“ ” ώ

Ḍ ﺝ ﻣﺣ Ạ̈ . “ Ẉ Ẅ . ”

ﺝ ﺥ ﺳﻡ ﺝ ┗ ̣

ɯ T Ό y̰

┗ﻣﺣ Ό ┐ Ό

ﺥ ◥ ˜ ɯ ﻫ ̣ ê ˜

ﺝ ﺝ ɯ ɯ Ό ﺝ ┗ﻣﺣ

ﺝ e ◥ ɯ “ ” ɜ

ɯ ن ɯ ◢ Ă̈ ɯ ◢ ﺝ

ɯ ي ┗ ɯ ♯ Ό ي ┗ ɯ

ﺝ ئي ♯ “ ” ˜ ي ┗

Ạ̈ ◢ ɯ ┗ ي

. ̣

ﺝ ي ┗ ˊ ﺥ ﺝ

W ﺝ ˜ ˜ Ė Ẍ W ◥

ﺝ ئي ̣ Ḟ

ي ┗ ﺝ ئي Ė Ẍ ┣ к Ẃ e

1.2.3 “ ”

“ ”— —

ي └ 1992 7 ♦ 7 ⅄ .

1999 8 ”Ą “ ” y

ي └ â ┐ ي └ ѽ ₹ ệ ẇ

ي └ ά ”Ą “ ”— — ₹ “ ” ‘

ي Ẹ ي └ Ė ي └ ي └ ’ ┐

ٹ ”Ą ي └ T ⅄ é ầ

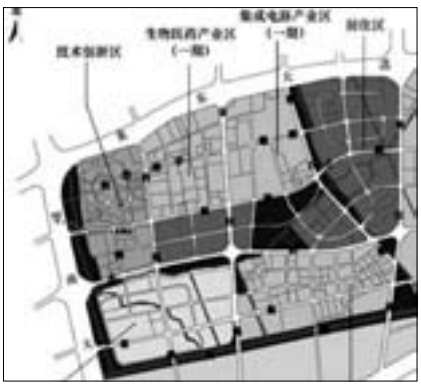
1992 12 ẽA ي └ ي └

“ T ɒ ɯ ⅄ .

˜ ي └ T Нь / 9

1995 1992

1-6



1-6 1995

2.1

2.1.1

5 10 ⁻ ⁷⁄₈ ˥ ẵ ⁷⁄₈

ᾗ 50% ⁷⁄₈ ầ ⁷⁄₈ ⁻ ά 2008

⁻ ⁷⁄₈ ᾗ 46% . ⁷⁄₈ ⁻ ẵ

5 10 ⁷⁄₈ 10 ᾽ ᾗ 55% 60% ⁻

T . ᐣ ⁷⁄₈ T ᖷ Ẹ

T ᖶ ⁻ T 2-

2 - 1

	20%	20% 50%	50%
	ئى		۸
	50% 20%		50% ئۇ 30% 10%
	1870 26% 51% 25% 24%	1910 53% 33% 32% 35%	1970 74% 3% 34% ۸ 63%

e ″ T ي └

⁷⁄₈ T ⁷⁄₈ ۸ ˙ ⁷⁄₈ ڒ T

ۏ T ۸ T. - T . ┐

⁷⁄₈ ê ˉ . ڃ

Ғ ي └ T ⁷⁄₈ 10 15

5 10 ˙ 15 ˀ щ 35%

ǎ 50% ⁷⁄₈ Ғ “ ” ⁷⁄₈

⁷⁄₈ ` 6.6 к Ẃ ڃ

` ˙ 10 к Ẃ ˉ “ ˙ ي └

ላ ê . . T ┐

″ ¨ ┐ П ę ۸ Ό

Ғ ي └ ⁷⁄₈ ˈ ڃ ھ ڃ ي

└ ┐ Ғ ي └ ˈ ڃ ⁷⁄₈

۸ ę ` “

ę П щ ◢ Ό ◢ ę Ό ę Ό

ي └ ┐ W Ό ۞ W ‘ ώ

Ƙ ~ ‘ T e ◢

2.1.2 “ ”

ầ 21 . Ẵ ◢ T - ┐ ₹ T

₹ ┐ ₹ ◢ ę Ό ۞ └ ₹

T └ ₹ щ Ɨ ₹ ‘ ầ WTO . ầ

₹ T 2002 ₹ ώ щ 500 к

Ẃ 2004 600 к Ẃ 2006 700 к Ẃ 2007 800 к

Ẃ ₹ ◢ ▉ щ ╖ 2-2 ۞

ầ ₹ ◢ ₹ ѽ ₹

2 - 2

		1970	1980	1990	2000	2004
		134	551	2 078	13 930	7 108
		95	466	1 721	11 205	3 800
		70.9	84.6	82.8	80.4	53.5
		39	85	357	2 461	2 332
		29.1	15.4	17.2	19.6	32.8
		0	0.6	35	407	606
		0	0.1	1.7	2.9	8.5

ᾠ ┐ ▫ ڇ 70% Ѫ

10% ˀ Ѫ ▫ T

. T ┐ Ẹ ⅄ ⅄

T ﻩ ▫

Ⅶ Ѫ 60%

₡ ▫ T ệ щ T ▫

Ǎ˘ Ѫ ẹ ‟ ⅄ Ẹ

T ₡ ┐ ▫ щ

ᾳ ₡ Ⱬ

₡ 30% Ѫ ₡ 25% 20 90

T ₡ ᾷ 35% ˘ Ǎ˘ ᾷ 2010 Ǟ

50% Ѫ ₡

┐ ▫ ⅄ T

‟ ▫ Ǎ˘ ⅄ T

ⱺ ڇ . ▫ ώ 15 к Ẃ T ♂

▫ T щ ẇ. ڇ ▫

T ⱺ ڇ

~ e ▫ ﺳ Ό ▫

Ǎ˘ ڇ ▫ ┐ ‘ 2004 600

┐ ậ ┐ 40 к Ẃ ڇ ⱪ Ѫ

П Ѫ ┘ Ѫ ⅞ н ⱪ ⅞ Ѫ

┐ ڇ ɔ Ч ﺡ Ό

Ẹ ɔ Ч ڇ ﻩ ڇ ⅞

┘ ﻩ ﺡ ﻩ Ⅼ ˀ ┐ ▫

Ǎ˘ ڂ ۪ Ǎ˘

۪ ך . ۪ T ۪ ي

L“ ” “ ” “ + ” T

⅞ T Ό ۸ سم . . ڂ

سم T . W ´ ‘ щ

ᾶ سم T ⅞ ~ ⅞ Ό Ţ T `

“

ᾠ ~ ۪ . T ך Ẹ

۪ Ẹ شھ Ǟ لأ

ê ⅞ T ۪ ך ۪ Ẹ

Ⱶ ھ Ẹ ך . ¨ `

سم ⅞ ⅞ ■ سم

ي L ۸ ך ۪ ۸ ۪ Ǎ˘ ך - ê

` ê ۪ Ǎ˘ ך

` ي L “ ” щ T

⅞ T ڪ ج ڪ ج ╖

2.1.3 “ ”

T Ţ ᾶ

ڜ ڃ T ‟ T ہ T

T Ό ‘ T ệ .

Ό ̠ └مح ┐ T ┐ ă Ц ώ

“ └ ”

2.2

2.2.1 ⊖

1.

ᾇ ᾇ ă sprawl

. ̯ └⅞ ┐ . ̯ 8 600

∓ 2/3 ي ᾇ

└ ┐ ά ┐ Ẹ

Ғ └ﻝ Ǻ ق سم └ ~

ᾇ Ẅ e └⅞ ┐ ẹ

∓ . ┐

ª ã ﻝ ڗ ┐ ڃ └

ﻣ —— ∓ ′ ئي ڃ ώ “

” ɯ ┐ ̊ П ئي ڃ ┐

┐ ڃ └ ┐ Ở ڃ ﻣ

⊖

1. http://www.guandian.cn/article/20080520/73399.html
2. http://theory.people.com.cn/GB/49154/49156/3645598.html

20 80

“ ”

2.

Andres Duany Elizabeth Plater-Zyberk

tranditional neighborhood dvelopment TND

Peter Calthorpe transit -oriented development TOD

“ TOD ”

“ ” 600

TOD TOD

“ TOD ” e

“ 5 ”

“ TND ” “ 5 ”

◖ 400 ⊥ ⊻

ɯ Ω Ǎ ⊀ Ǎ ǎ ′ . ∓ ⅞

⅞ ′ ∟ ′ . e ᵭ ′

∟ ᵯ̃ e e ᵯ̃ ∓Ẃ ∟

e ⊻ ˆ

ɯ ᵰ

ώ ᵭ ώ Ǎ ǎ ∟

⊀ م ẹ ﻫ ∟

∟ ώ ɯ ẹ

Ẃ ᵭ . ∟

Ό

“ ” ∧

ɯ ♦ ′ ♦ ′ ∟ ∟

“ ∧ ⊻ ﻫ ” “ ∧ ”

∟ “ ” ᵭ ᵭ

ᵭ ᵭ . ώ e ∟ .

` ′ ⅞ ⊀ ⅞

3.

Panhandel Seaside

“ ”

12 000

2.2.2

“ ” “ ” smart growth

1.

2000 (APA) 60

” Smart Growth America

[J] 2008 1 87-90.

ﻝ ╤Ẃ ˙E ⱪ ﻝ Ƒ

“ ” ڂ ﮬ جﻲ ỏ ¬ ﻝ ỏ ώ

—— ` Å ⅄ T ㄱ y̰

—— - Å ʊ̇

- ⅞ ᵾ ⅞ ㄴ∓ جح Ẍ ώ . ´ جح ئي

ضح ⅄ م ̩ Å ă

سم . ` كا

ㄱ Ė ⅞ ㄱ 2004 щ ㄴ ˚ ˜ Ό ㄱ

2.

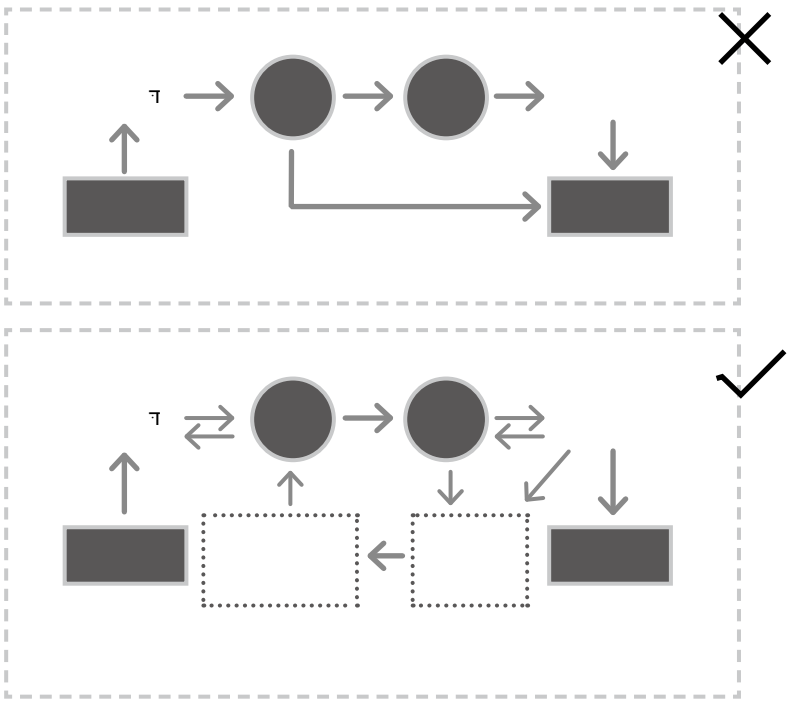
“ → T → ”

∓ “ → T → ȯ ”

˛ 2-1 ㅅ ㄱ Ę

ώ ᾷ ㅁ “ Ė ⅞ ȯ ώ ȯ

” Ę ㅏ ę ` щ ㅣ



2-1

—— ώ Ἐ T ⅄

Ⱪ Ἐ ⅞ ᾦ

—— ⅄ T ` ᥰ ᥰ T ệ

Ἐ T

—— T ⅄ T Ấ م ` ώ

ώ ᥰ Ἐ ά

ᥰ Ἐ ώ ` ȯ ᥰ Ἐ

—— T م T ⅄

ȯ T

. e ㄱ ṇ ꒦ T Ẋ

ᵻ ` ㄱ ꒦ ⅄

ᵎ ẵ ㄱ

. ⅄ Ό ㄱ

م Ό ㄱ ‘

T . ⅄ ȯ T Ƒ ώ

ώ ά

⅞ . ` ㄱ W

⅞ щ ŋ ᔆᥰ

ώ Ţ ي └ ╥ ṅ ~

ẏ ˙ ´ ╥ ي └ Ė

2.3.1 M50 “ ”

ⱶ щ “ T ” щ ╝ ҕ â

ㄱ ♂ . щ “ T ” ѕм ㄱ

T ᵴᵴ ę

T “ ” ㄱ

T ⅞ T ╥ ╥

M50 ي T └ ѽ ę

ﻝ Ό T ي └ ẇ “ T └ ”

“ ═ T └ ” “ Ă ˚ ” “ ⅞

T ي └ ” ~ 2004 ѽ ⅞

ҕ

1.

20 90 ´ “ ” T ㄱ

, T “ T ” └ “ T ”

1999 ♂ ę T ♂ ﻝ ю

ę . ҕ ♂ ю

“ ”

~ . Ẉ ҕ T ɯ

└ ㄱ . ɯ

ȯ ɯ ώ Ḓ ♂ `

Ẍ ᵹ ᴻ ᴸ

2002 1131˜ ᴶ1133˜ 720˜ ю

ᵹ . ᵷ

50˜ ˜ . 50

˜ ᴺ Ǎ˘ ˳ ȃ ᵹ

2004 “ ⅞ T ”

Ặ T ᴶ 50˜ Ẍ M50

2.

ᵹ 2000 50˜ ʜ ♂˳ ي ᴸ

ᴶ ᴶ

⅞ ᴶ 2002 50˜ ᴻ “

ي ᴸ ” 2004 . “ T ي ” 50

˜ ⅞ Ẅ T Ặ Ẅ Ό

˳ ⅞ T ي ᴸ 2005 4 50

˜ T ᴸ ᴻ “ M50 ي ”

M50 ♂ ᴶ ي ᴸ Ό

ᒣ ᴶ ᴺ e ي ᴸ Ậ ẵ -

ᴶ ᴍ ȭ ȃ 20 ˳ ᴶ ᵹ ᴸ 140

ᵷ ᵹ ȃ M50

ي ᴸ ᵹ ᵹ ⅞ ᴍ ệ Ό

ɔ Ч ☄ ~ ♦´ ⅞ ɋ

Ẹ ⊀ ɔ Ч ☄ ѽ ˛ ê p ầ 2008 ⩣

. ầ v

Ⅵ ầ M50 ~ Ⅵ ˛ ệ

. e ⊀

☄ M50 T ~ Ẹ ☄

щ ⅂

⅞ T L

M50 ♂ ⅂

T “ ” . ẹ

⊀ ˛ Ό T L Ⱶ

˛ 2-2

2-2 M50 “ ”

2005 M50

M50

M50 SWOT “ + + ”

M50

M50 “CREATIVE M50”

M50 M50 M50

M50

ADICOLOR

M50

M50

2.3.2 “ ”

ي └ ~ ي └ щ ضم ○

ج Ở ج

ي └ ڎ ج T ج ˙ T

e └ ↰ ′ ∓ “ T — ” Ǎ ǎ

T ڎ ′ . ẏ ˥ .

é e ↰ ˙ ˥ Ғ ي └

˜ ي └ ∓ ′ é

щ ي └ ↲ e ↰ Ȯ ш “ ” ي

└ ȃ щ

“ ” Ą Ғ ي └ ẽ Ẹ T ˥ ⅞

. ڎ ˝ ɪ̈ Ǎ ǎ ↲

ȃ щ ɣ e Ẹ

Ẹ ڎ “ ” ↲ . ي └

Ғ ي └ e ↲ ↰ Ȯ ᦵ└

“

щ Ǟ ج ↲ . ′ T

. ي └ ˥ .

1.

1999 8 ↰ “ ” ɣ Ȯ

ي └ ˙ ˥ ڎ “ ” ˥ └ ي

ɔ └ ′

ﻚ ﮓ ي ﺎ ﺎ

ﮊ ﮓ ′ ﻚ ﺎﻣ .

ﮓ ⅞ T ﻝ щ “ ”

ậ Ǻ ǻ Ǻ y e ▲

ƥ ⅞

. ي ﺎ Ą ﻝ ﺎ ⅞“

” Ę ậ ′ ﺎ ﮊ ﻫ ′ ي

ﺎ ﻫ ﺡ ﮓ щ ﻫ ﺡ Ƒ

⅞ ′ ‘

ي ﺎ ي ﺎ ﮓ щ ă T

ậ ă e щ ∓ ′ ậ . ′ щ ∓

ậ ℼ “ ” щ T ي ﺎ ậ e ﺎ ﮊ

щ T ∓ ﮓ .

T ⊨ ﮓ

2000 П 2˜ . ي ﺎ ﻛ ي ﺎ

П 2007 ﻝ ﺎ ê ‘ ℼ “

37

2005

“ ”

2-3

168

24

2-3

2.

2007 ي ┘ ┐ ╣ ш ά 4.2 Ă

ѽ 25 Ă ₡ ٧ כ ┘ ⊿ ┘ כ ┘ ⊼ ┐

┘ 2007 ٧ ┘

כ ┘ T ′ Ғ ي ┘ ╖ ę . ′ e

┘ x. ي ┘ . ╥ ѯ

54 Ă ╥ ┘ ′ ┐ ѽ 2010 .

ي ╖ ╥ כ ┘ ╞ ę Ă Ό

. 2-4

┘ ╝ כ ╥ ╥

ѽ 466.77 Å ┘ ┘ ┐

┘ ⊿ ┘ “ ┘ ” . 2-5

Ę Å ي ⅞ T ⊼ ѽ

╨ ⊿ ⊿ ⅞ ǯ

2-4

2-5

Å . T´ ⅞ щ

سم . щ â ậ

ך └ ך ڎ Ę ך

´ ⅄ ڎ˜ Ǫ Å ♥ ، سم طي

⅞ . ۔ Ɜ щ ⅄ П e

└ ך ⅄ ڃ W e ∫

۔ ´ شھ ẽ e ш ⅞

⅞ T ˜ ˆ 6لى ڎ └ ê

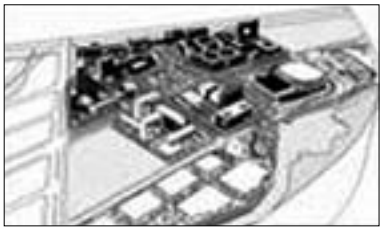
لى ⅄. ˝Ą ` ڎ

ڎ └ ך ˜A ך

щ ¸ 2-6 ¸ 2-8

2-6

2-7



2-8

2015 50

2.4 “ ”

“ ”

2.4.1

ÃA —— ώ ┘ ي ڎ

. ┐ جئي جئي

ڎ T ۔ جـ

Ш T T جـ

“ T ” “ جـ T ” p p ┘ ي ώ

T ώ ┘ ي ┐ ڎ ┐ ⅄ ┐ ┘ ي

1.

جئي ┐ جئي ┐ hm ┘ ي

ˇ جئي ┐ ỏ p ậ ˜

ˆ ڎ W

ɜ W ي ┘ ┐ hm ώ T جـ

┐ T جـ ڎ ي ┘ ﻫ جـ ┐ ɯ Π

T جـ ۔ T جـ ي ┘ p T جـ

2.

ي ┘ ϰ Ăă ٪ سم ɯ

جـ Ω Ăă ♂ ڎ ά

جـ ɜ ɯ حم

ـ ـ Ǎ سم ⅞ ώ ♂ ڭ Ω Å

ώ ـ

ﺞ ي ᒐ ي ᒐ ﺞ T

3.

ш ά ي ئ ﺞ ᾷ ي ئ ﺞ ᒣ ᒣ ڭ ي ᒐ

ᾷ ᾠ ي ᒐ T ي ᒐ ᒣ ɯ

ي ᒐ ╗ ᾷ T ﺞ T . ` T ﺞ T

.

2.4.2

ш ᾠ ي ᒐ ⅞ ᛋ “ ♂ —— ——

Ꮶ ﺞ ” “ ي ᒐ ′ ⅞ ᛋ “ ╤ ′ ——

. ′ ” ڭ “ T ю ∫ ′ —— ᒣ ′ —— Ω Å ” ⅞ “

TECHNOPARK

⅞ ℸ ˪ قى تخ

˪ ˪ ˪

ﻝ y Π

Ǎ ǎ ∟ e

, 3-1 ﻝ , 3-2

20 90 ∟ Ą ㄱ

= “ ﻟ ” ﻝ ∟ﻣ “ ㄱ

” Ę 2001 ∟ Ą

“ ㄱ ♦´ ” Ę ㅈ ∟ ∟ ∟

Ẅ ﺝ ﺳ ♦´ ⅞ ώ

⅞ T T ⅞ T

′ “ . ” living mixed city

3-1 3-2

3.1.1

T ∟ Ą ㅈ ∟ ẇ ﺟ

♦´ ㅈ ㄱ ㅓ e ‶

∟ﻣ Ę . Schiffbau ♂ Ę ę̂

ﻍ Ė ώ

♂ ێ ێ

ﻯ ﺳﻢ ۪ ▲ ۪ ♥ . ۪

ﻯ ﻯ ﻯ

e ה ۪ 3-3

Schiffbau

3-3 Schiffbau

Technopark

250

3-4

3-4 Technopark

3.1.2 “ ”

Ę e

3.2

ậ˜ 8˜ ن

12 000 7 333 Ă˘ Ą

Ă˘ ă˜ Ă˘

2004 2005 á

50 â

“ ậ˜ ” 5 000 Ẃ

2006 ậ˜ 2 400 8 400

U 5 2008 6 6.5Ẃ/ /

2 4Ẃ/ / غم

Winking Ă˘ Band Ă ã Ă˘

Ă˘ NACO Ă AEDAS

3.2.1

ậ˜ Ό

T T

Ɜ 29% Ẹ Ȼ ˟ . .

˳ ˟ B ˳ . ALSOP

~ â˜ Ẅ ώ L “ Ό ˥ T

Ǫ ˥ ˳ ê ⅃

“ ” Ƒ â˜

Ǎ ˳ ƍ ~ Ǫ ⅞ Π

ℸ L ⁎ ⅞ ⅄ ˭ T ш T ǫ̃

T

â˜ ƍ ɯ . ᘐ ⅞ T

ȃ ᵂ 3-1 â˜ ɯ——

“ ƍ ά T Ǻ˘ .

ȃ â˜ â˜ ⁎ ώ

˘ ⅄ Ό ˳ ê

. ي L ǫ̃ ℸ T ي ǫ̃

3-1

๐		(%)			(%)
	17	33	ᵂ	15	29
	6	12		6	12
	4	8	⅃ n ᵂ ᵓ	5	10
	2	4	ᵂ	3	6
	2	4		3	6
	1	2		2	4
	1	2	ᵂ	1	2
	51	100		16	31
				51	100

”

щ ′ â˜ щ Ǫ Ǻ ɯ ǰ̆ Ǻ̃

Ę Ǫ Ǻ ′ щ ₡ ٧

ƥ ᷒ ƥ سم Can you 3S ٦ ڇ ệ

. ٨ أ ♥ ٨ أ

♥ ڇ ệ ′ â˜

٧

3.2.2

â˜ â ᴋ ⊦ ⊦ ẇ ⅴ

ᧉ Ƒ Ẅ

ᒐ

â˜ ڇ ᴋ ڇ

˜ T e ٧ W Π ´ ي ᒪ ă ᒧ

غم ˜ ڇ ♂ ⊦

“ ” â˜ logo . 3-5

3-5

3.3.1

â ˜ ٦ ɯ ˜ ﻓﻲ ɯ ˙

Ό Ẹ ٦ ﻫ ˜

1.

ﻓﻲ Ⱶ ﻓﻲ 20 30 ⁷⁄₈ ά

. ﻳﺦ ﻓﻲ “ ” Ω ╝

ﻣ ╞ “ Ό ” ﻳﺦ p 140

36 ﻓﻲ ♂ ♂ ệ ˜ ﻳﺦ

ﻃﻲ ٦ ♦´ 3-2 ﻣ ˙ 3-7

1998 . ỗ ﻓﻲ Ω ﻓﻲ ⁷⁄₈

´ ¨ “ ”

ﻓﻲ . “ ﻓﻲ ” “ e ﺝ ” .

3-2

	♀		♀	ﺅ
			♀	220
			♀	220
	٦ ♀		♀	220
	٥ ♀		♀	220 1
	♀		♀	210 2
	♀		♀	210 2
	♀		♀	210 2
			♀	210 3
	♀		♀	210 5
	N/A		♀	210 7
	♀		♀	210 9

ف - 祎

۪ . ۪ ▌ ۟ ╥ ·

ך Ό ˜ ˙ ف ę ♂

▌ L ف Ă ך ♂ 2

Ⅵ ώ ۪ ۪ ۪ ‘ ‘

Å ۪ ⅄´ 18 ۪ ⅄ ج L ڭ ۪ ę 102

â e 600 e Ę e ▌1 10

ę T

3 - 7
20 30

140

36

2.

2004 Ⱶ . ֆֈ

ך ך “ ֆֈ ١ ” ֊ֈ

ֆֈ ي └ ♂ └ ٨ └ x ♂ └ ậ ԉ

137 └ ậ 144 2006 ֆֈ ֯ T

ي “ ” “ ♦ ´ ٨ ﻛﻢ

‘ ⅞ ’ ” ⅞ ٨ ♦ ´ “ ⅞ ﺝ ” ♦

´ ٨ ⅞ T ך ﻛﻢ “ ﺝ ”

2008 4 ▌ └ ֆֈ T

ي ֆֈ ш “ ” “ Ă Ǫ ” ậ

3.3.2

ֆֈ ך Ó ﺳﻢ

ֆֈ “ Ⱶ ” ⅞

ֈ ֊ֈ ▲ ۟ ٨ ԉ `

Ⱶ ֊ֈ Ẇ П ~

`

⅞ ך ê ֊ֈ “ ẽ ˜ ˜ e

⅞ ” ֆֈ ך ` ш ǂ

ﺳﻢ Ⱶ Ó ώ ά ш ♂ ẽ

ﺝ ئي ẽ ╥ └ ١ ԉ Ẉ

└ ﻣﺪ ⅞ ل ╥ ԉ ậ ᵘ ╥ ш ώ

ԉ … Ă ⅞ ◗ ﺟﻲ ♯ Ó

ֆֈ ﺳﻢ Ó ך ֊ֈ ֯ ɣ ʒ

T ɯ ڎ

x ڤ ɯ └ ⅞ ┘

ה ò ặ ق ◗ ڎ └

ﻫ Ό Ό ◗ سم ώ ﻥ

⅞ ⊢ Ό ڤ ڎ

2008 ڤ â Ậ ˘

ﻝ ⅞ Ă ă T â ặ ڤ

3.4

ﺡ ۊ ﺡ └ Ă └ T

ℼ ȝ ш ♂

└ Ọ Ă ′ ي

ɯ ′ ⅞ ′

3.4.1

Ă └ ך ⅄ ′ ~ ⅄ ′ ш Ở

└ Ă ̈ . ج T └ Ă ◗ ̣

e Ẹ ך p . ﻫ└ . ج ⅞

ﺡ

1989 Ă ̈ Ă ˘ ﻝ ﺡ Ă ˘ .

حم └ ┐Ă˘ ┐ ‘ ‘

└ └ ệ ά ‘ ○ Ậ

‘ ي └ └ p Ă

“

1999 ي └ Ă˘ سم ⅞ p p

J Ă ¸ 30 ệ سم ⅄

↑ ớ ج Ⱶ ẇ ♂

ڑ

ج ڑ ⅄ ậ â ¸

100 8 حم 50 2

ڑ 12 ي └ 350 к 400 к Ẃ 30 к Ẃ

3.4.2

1.

щ ặ̃ ┐ حم T

20 90 حم Ⱶ ‘ T

┐ حم e ẵ ج̈ └ ệ ę “ ”

T T ج ج̈

Ȯ – T . T . └

T T Ẹ ặ̃

┐ ج̈ └ ╗

′ ∓ ي . ′ ي └ ┐ ‘ ـ

2.

ڎ Ă ᒪᓂ ᓇ

ᒃᑲ Ẅ ᒃᑲᓂ `

ي ᒪ ᓂ ᒣ

“ ” “ ” “ ”̈ ي ᒪ ۊ

T ↑ 120 ₸Ẃ Ⴏ 400 ڎ

ɯ ڍ â

ɜ ي ᒪ ي ᒪ Ⴏ Ơ

3.

ڎ ά 1999 ي ᒪ ♂ ▉ ᷇ 91%

▉7% ɯ p 2% ي ᒪ â ♂ ′

ȯ . ᒪᓂ ~ ₸ ′

ڍ ɯ ڎ ′

᷇ 2006 ي ᒪ Ω Ă Ⴏ ♂ 60% ╗

᷇ 25% ɯ ╗ ᷇ 15% ᒃᑲ ₸ ♂ ᒧ . ᒪ

“ 1999

…… ……

”

— —

4.

Ⴘ ɯ ȃ .

. ã̃ ɯ ɜ ǎ ˜ .

ך “ ”

ẇ ̈ . ي └ ẇ Ẹ

. ڇ حم 9 ̈

ȯ ⅞ ⅄ . Ǻ

˘ ي └ ⅞ ɜ T Π ̈ ώ ך سم ⅞ .

Ⱪ . Wي └ ệ

ɜ

5.

Ǫ Ǻ T └CBD ˜ ھ

Ǫ Ǻ T ╤Ẃ 150 300 450 600 ` .

̈ ˘ =e ȃ ˜ 4.5 6

3.7 ` Ế ẹ Ǫ Ǻ ך 6

˘ ɜ ◕ ´ ɯ

6.

ي └ ך ɯ Ẹ ⅄ ڇ T T

ɯ ώ ڇ ڇ T ƥ

ڇ T ȃ Ẃ ǫ̃ Ȯ

ȃ ℸ ɯ

7.

Ǎ ⅞ ɣ Ẹ ך ש ך ש ך ה Ẹ Ǫ Ǻ T ˍ ǫ̃ ש1999 ך י └ ă ˜ ã

Ậ ך

ج Ậ ˜ ǫ̃ ج └

ج T ậ p ɡ ך

Ш щ ώ ⅞

ɡ ⅞ ך ‟ Ғ ج

ج ‟

ỷ Ã щ ɡ Ǫ Ǻ T

′ . щ ẇ ɡ T ′

י └ ′ T ′ . י └ ′ Ш └ مد جئ جي

ѽ Ǎ كم ớ غم p └CBD p

3.5

ي حم └ └ ɔ ⅄ ẇ Ậ T

└ 20 ɔ

حم ɔ П ˍ ώ

20 90 ά щ ю ⅄ ю

ю 80 ă 90 . . 400 500

ю ⌒ ⊿ ю щ ” ˚ “ ֆ

T . ⌀ Ό ⌀ Ό ⊿ ⅀ ج ئي

′ ي ┗ . ֆ ֆ

10 ي ┗ . ю ∫ ┗ ч ⊢ ш

ж ẇ. سم ڒ ю ج

6 ю 9 ю ⊢ سم ڒ ′

ц ┗ ي ڪ . ê ֆ 146 ⊿ ώ ¨ W

ю ⊿ ώ ˙ 60 ⊿ 30 ш

ֆш⊿ Ă Ω ~ ♂

ي ю ♂ ي ֆ

. ي ′ ₡ ⊿ ẇ ┒

سم ┗ مح ê ֆ سم ֆ Ẹ ┒

. ⊿ سم ⊿ ã ┗

سم ┒

2006 x ȯ ֆ ֆ ⅀ ю ┒

П ′ ⅄ ═

ي ┒ ˚ ю ∫ ┗ مح ц ⊿ ┒

سم e ώ

┗ ẹ ֆ ֆ سم Ẹ

ֆ سم . ⅞ حم

ֆ ┗ ⊿ ┗ ┗ مح ┗ ֆ ֆ

ֆ . ~ ˚ Ă ֆ

e حم x ” “

e تخ سم Ãً ـِ . 2 ـِ 200 ـًا جخ سم

ÃA 130 ∓ سم 1 e

285

450

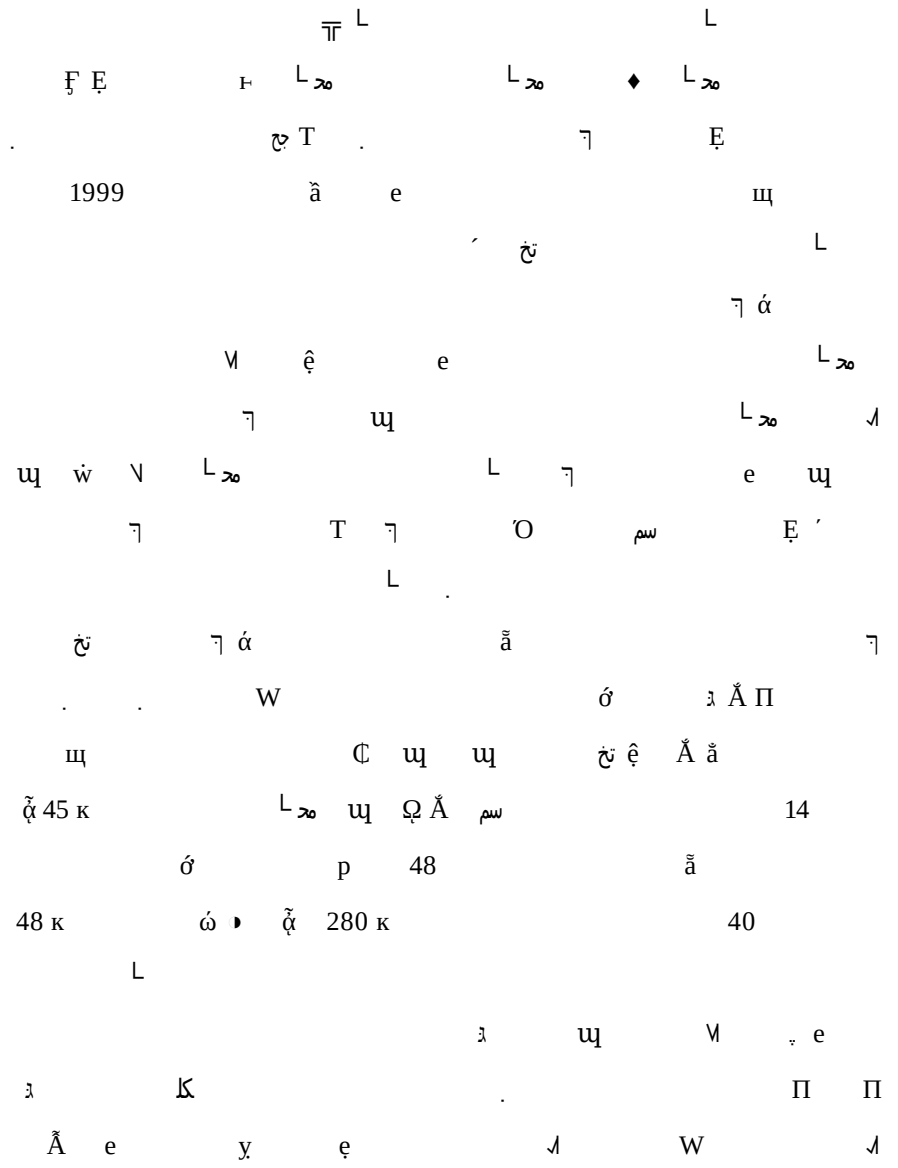
4.16

19

3-8

3-8

3.6



Ω Ă ` ㄱ ㄴ T ′ .

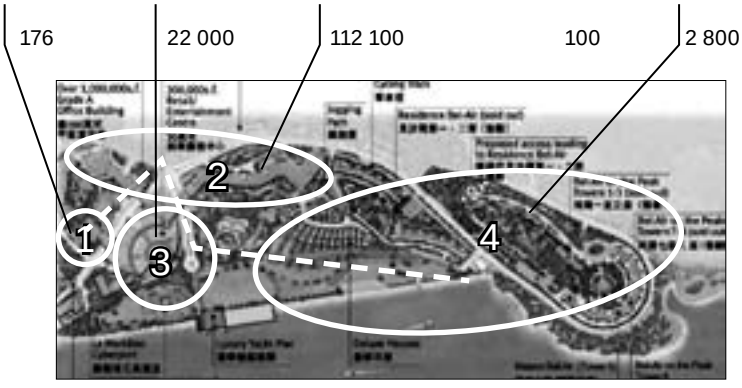
′

ㅔ 3-9 ㅔ ′ ㄴ ㅔ ㅅ ㅔ

ㅅ â ′ ㅒ ά ㄴ

ㄴ ㅔ ㄴ

ㄴ . ′ ′ ㄴ



2003 ㅛ 2004	2003 1 204 97.65 2005 2 000 221 2007	ㅒ ㅘ ㅙ 1 000~2 000 82%~85%	2002 2003 ㅇ IBM ㅈ ㅇ 56 2005 45 ㅙ ㅈ ㅘ ㅙ ㅈ

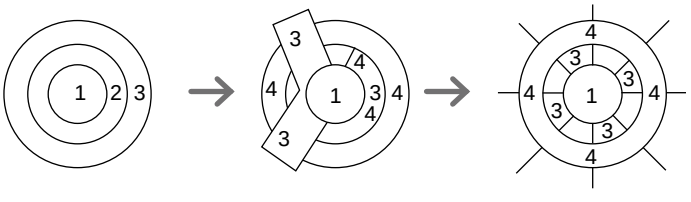
ڂ x ┗ ڃ ┗

ي ┗ ي ┗ ~ Ă ي ┗

. ┗ ┐ ‟ ¸ 4-1

┗ ڃ ي ┗ ┐ W ڂ

ﻯ ă ~ T ⅞



1.
2.
3.

1. ш
2. Ω
3.
4. ئ

1. ш
2. Ω
3.
4. ئ
5.

4 - 1

~ ي └ T ┐ Ό ὸ

Ą ي └ Ц “

. ≡ “ e ╎ ” Ţ e

└ ώ ′ ã

ي └ ┐

4.1 “ ”

щ 20 60 ڂ Ă

“ ي ” ڂ . = ╚ Ă ă ┐

. جج ئي .

⅞ ▲ ¸ 4-2

4-2

щ ج 1963 20 70 ~

20 80 ך Å ي

Ǟ 20 90 ⅞ ׳ ╨ Å

x ♦ 40 ך ׳ . T

4.1.1

Ч ɔ 50 Å ׳ سم ɔ 40 Å

ج 284 Å ׳ 4-3 6 é 21 e Ẹ

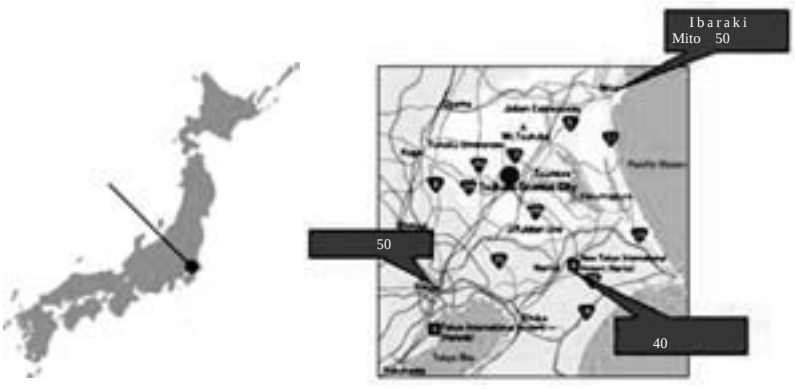
׳ e ∖ 1.9 e Ǟ 40% 5 000 e ╨

ѽ ⊀ ẇ ج .

׳ ׳ ׳

Ǟ ⱪ

׳ щ Ч ɜ Ч ⊀



4-3

ѝ ҙ ˩ ˫ ˫ ˫

ã ~ ˧

ѽ ˫ 48 ά ˧

ώ 11 20 80 Ѣ ˫ 30% ˫

˫ 40% e ˥ ҙ ˫ Ѣ 50

ҙ ˫ 4-4

4.1.2 “ ” “ ”

20 ă = ˆ ˥ ~ ˫

“ ” ҕ ҩ

ѯ ˫ Ѧ ώ

T Ѧ ҙ ˫ ę T . T

˧ ∫

ҩ 20 60 . щ“ ˫ ” . “ ˫ ” щ

. щ .

“ ”

y 40 .

. -

4.1.3 “ ”

♦ ά

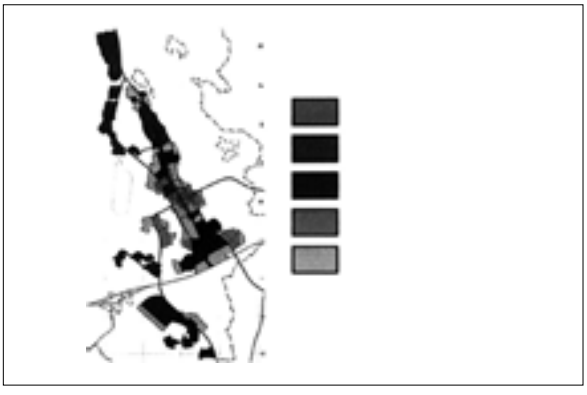
1. 1963 1979

1963 ê y Ч e

Ă щ1965 ♦ ج ئي ج

. 1968

: 4-5



4-5

ά ♦ 20 ά ي ج └

ά ج └ К ₵ Ǻ ي

ғ ¸ 4-6

┐ 1972 17ǫ е ∖ щ Ч ȃ

П ¸ ⅄ ╝

ǫ̃ ǫ̈ Ғ Ч е ∖

ǫ̃ ǫ̈ ╚

е “ ”

Ь ǫ̈ 1977 ǫ̇

ώ ǫ̈ ǫ̈ ┤ ǫ̃ 1980

¸ ˘ 43 (▉80%) ȃ р 9 000 е ˘

12.4 1990 ǫ̃ 20 е ȃ

˛ Ь ǫ̈ ғ

щ Ẹ ǫ̈ ∨ К

4-6 20 70

2. 1980 1989

1981 8

(" ") .

1983 .

4-7 HUD

1985 " "

4-7

4-8 4-9 1985

1987 6

. .

10

4-10 20 80

3. 1990

1990

~ П ﻝ ﺝ ﹻ ﹷ ﺟ 1987

1995 ɔ 2005 8 Ã 58 Å

(◖)щ ˜ ђ Ã ﻝ Ч

“ ” ˜ ђ 130 Å ɾ

4 - 11

4 - 12

ɾ ق ش ~ ɦ ʈ̃ ˘ 45 ⅞ ه

ɔ ج └ П ج └ ㄱ

ш 1989 ʈ̃ 1998 е ﻏﻢ 12.7% ʈ̃

1998 е 18.8 Ẹ └6.5 ↙ └

12.3 e 2004 3 е ʈ̃ 19.8 ɦ e

ˉ ج 1998 Ậ е ʈ̃

2030 е ʈ̃ 35 Ẹ └ ɦ 10 e ↙

└ ш 12 e ˋ ʈ̃ 25

ㄱ Ẹ ɡ ج ج ⅞

“ ↙

University of Tsukuba

27 15

12

“ ”

“ ”

“ ” 94

1

“ ”

4 - 13

4 - 13

4.2

ي └ 1994 2 ˛ Ã ~ 5 ١

˛ - ‘ ˛ . ي └ └ 288 Å Ę

. └80 Å ɋШ é 31.5

é 61

ي └ ٦ ę ˛ Ό ي └ ٨

⁄8 ˛ ⁄8 ⁄8 └ ۟ ي └ئي ج ٨ é ۟ ▉ Ã

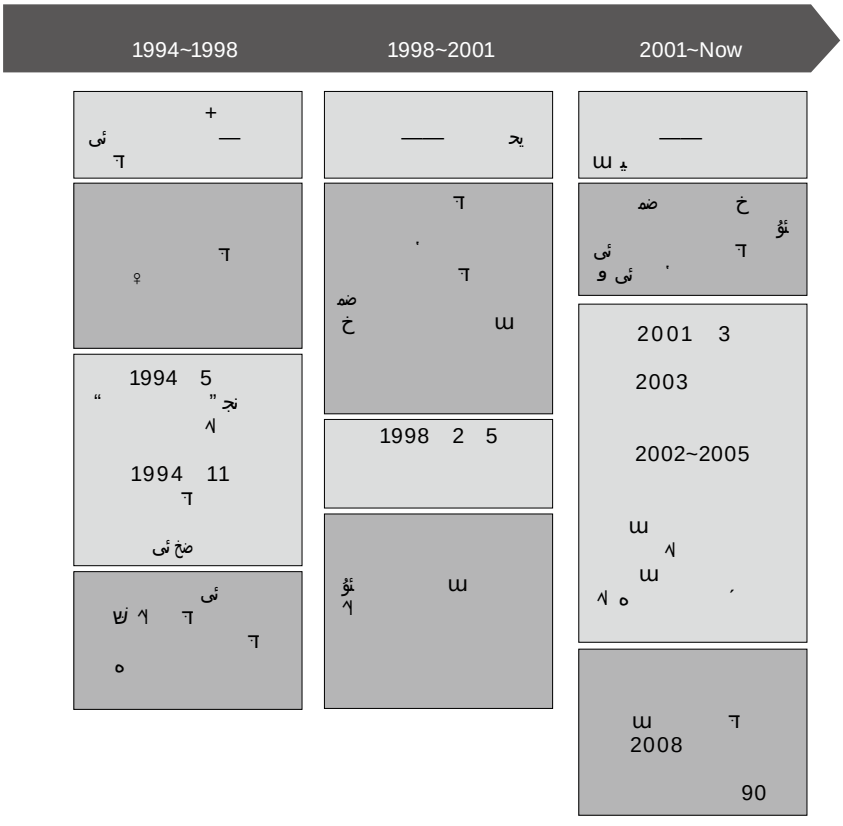
3.4% ٨ 5% SO_2 ٨ CO_2 ۟ ▉ 1% ٨ 2% GDP ج

â ٨ . T ▉ ˜ Ã 15% ˀ Ȯ ˜ ٨ ˊ

▉ ˜ 25% ˀ ٦

ي ˋ ˛ ١ ٦ Å ڑ

ـ ـ ~ ج ج
ـ ـ ـ



4 - 15

2. 1998 2001

ẇ ך ┘ي כ

┘ي T

T ج Ḍ

ך ي ┘ W

~ e ي ┘ ┘

“ ”

1998 2 5

“ ” “ ”

40%

“ ”

“ ”

“ ”

27 20 12

10 8 000

3. 2001

ך ڳ ך Ặ ـ ي └ é ã ﻝ

⅞ ‘ └ ך └ مح T ﻝ ═ ∓

ɯ ﻝ ɯ └ ي └ ي ɯ

ﻷ

ɯ ɯ ج ặ Ắ سي سم ي └ ɯ

⅞ ⅞ = ` └ ɯ ﻣ Ắ

سي ڀ ج ɯ Ắ سي ặ ى

سم ȯ ặ CBD ي └ “ ﻟ ”

4.2.2

ي └ ẇ 15 ɯ

ـ Ắ ي └ ך W ´ Ė x ي └

ך e . └ ، ɯ

. П ɯ T ~ ´ Ậ

، ي └ ך 15 “ ẇ . ẇ ج . ج ”

ך x ي └ ά ،

ي └ ά ⅞ └ ي

ﻝ └ ╞ ج ي └ `

ﻝ └ ` ﻛ ẹ ج

´ └ ά ـ ي └ ⅞

ﻝ ɯ └ ج └ ɯ ـ . ـ ệ ẇ

T ي └ ﻝ ⅞ T . ي └

ج └ ệ ي ي ي T ي

ي ˛ └ щ щ ⅞ └ “ └ ي ”

1.

ي └ ệ ج ˘ ■ ي └ 25% ◗ 3 000

247 к Ẃ щ ɜ 11 000 ệ ⅄ 1 156 к Ẃ ˛ ệ

Ш Ẉ ɜ T

˛ 4-16

ي └ غم 30% ˀ ■ 4% ˀ ئي ج e

ˉ ⅄ 7% Ă 15% ˀ GDP ج â ⅄ .

T 25% ˀ Ȯ ᾳ̃ ⅄ 30% ˀ ˉ

IT ⅄ IC T ■ Ă ˛ 3% ⅄ 16%

2.

ي └ Ą ά Ã e

ي └ ج 1 500 Å ■ ي └ 23% ~

4 - 16 3 000

20 ` 50 é ~ ج ئي ج ﻯ ﺧ ي ﺍ

~ ج ئي ج Ẅ ך ώ ﺃ

ج ɯ ي ﺍ ج

ﺍ ﺍ ن א ﺩ

` Ă ~ e “ e ”

Ẅ e ă ﻙ ɯ ⅞ ▲

~ Ό “ Ό ”

ي ﺍ ﻯ ′ ″ ي ﺍ ج T

Ă 800 ɯ ɒ 95% ﻭ â 8

e Ę e 1.2 e ˛ 4-17 ɯ ج

ך ά 70 Ẃ ˀ ő́ 500 Ẃ ˀ ɯ ה

1 500Ẃ ˀ ő́ 4 500Ẃ ˀ ج T = “ ي ﺍ

كم ” ﻝ ج ﺍ ج T ך . ﻯ

4-17 1.2

3.

ي └ Ǎ ǎ Ė └ ệ щ щ

ﻝ Ẹ └ Ǎ ǎ щ └

└ └ щ ⅞ └

└ W . Ǎ ′ └ . ¨

ώ e ﻝ └ ﻝ щ ¨ ώ

ﻷ ح щ щ

q سي — — Ǎ سي “ ” “ ”

Ẉ ¨ щ ¨ 4-18

щ ﻟ

e ى سم ȯ

e ۊ ح ڃ щ 10

щ 4

Ǎ ح └ Ǎ щ ﻫ

4-18 — —

“ ”

——

4 - 19

5

21 “ ”

4 - 19

4.

4-20

4.3

“ ” “ ”

4-21 94.52 Å

Ą

é 50 Ę é 37 é 13

131 43

Ę 1990 2000

377 87.4 к Ẃ

Å 26 Å 500

T 457 к Ẃ T 28% T к Ẃ

44

T

Щ

4-21

4.3.1 9.5

щ1990 ά 9.5 Ă ậ ڎ 94.52 Ă ʻ └

ﻫ ┐ ═ ┐

1990~1993 ʻ └ ج 9.5 Ă

└5.5 Ă щ щ غم

x. ┐ ج Ẍ ج كم Ạ̈

Ạ̈

1994~1996 ك ﻝ ά ẏ

ʻ ┐ ʻ └ڎ 9.5 Ă ệ

. Ц └ ﻝ └ ڎ ┤

Ⱨ T سم T П سم ڎ Ⅵ

Ă˘ ﻝ ầ └ ضم щ ﻝ

ʻ └ﺵﻫ ﻝ e ﻝ ˚

ㅖ ㄴ ﻝ T ㄴ ج └ ˚ ώ

Ỵ ي

1997 ﻝ 1998 ك ậ “

”——ج 2˜ ˚ ˚ ﻝ Ƒ

ك ȯ ´ “ ”

┐ ﻝ

ڎ Ⅵ Ⅵ

┐ ã ﻫ ˘ ڎ ﻝ

T ┐ ┐ ` ┐ ك

ڎ Ⱨ ج ậ 15 Ă ˜ 10 к Ẃ

1.

ي └ ◡ ◦ └ 16 Ǎ Ẹ 6 Ǎ

└ مد . “ ي ” ي └ ê ⱪ

ᵎ p ę “ ” “ W ” ⅄ “ ▲ ”

(VSAT) ′ ̣ ê ⱪ ㄱ └ ي └` ~ ά

T Wئي ج ÃA ♂ ⅄ . ̣

ᾠ ي └ Ⅵ Ẹ

1 000 Ẃ 74 3 000 Ẃ 20 1 к

Ẃ 7 10 к Ẃ 2 . “

Ǎ˘ ” . “ ⅄ NEC Ǎ

˘ ” . “ Ǎ˘ ” ج

Ặ T ⱪ ج

2.

ي └ ◡ ◦ └ ▉ ج 3.7 Ǎ ي └

ê ⅄ ̣ سم . ج └

“ ي └ e ⅄ ⊨ ę ⅄

⅞ ⅄ . e ′ Ǟ

└ ~ ⅄ Ⅵ Ό ę ╖ Ό ج

ي └ = Ẹ

⅄ ي Ǎ ✝ ي ậ Ƒ

ي └ ê ㄱ . ′ ج

ẇ ̣ ɯ Ỵ ي ⅄ ⅄

ㅁ 1996 9 ج └ ▲ ⅄ └

ﻝ T ┘ ( ) ڜ ي └ ệ Ặ

3.

ɯ ي └ ⌒ ˓ └ ڜ ▉ڜ 1 Ắ └ ệ

10 ɯ Ọ ˘ 15 ɯ Ọ ڜ ﻝ └ ệ 10

ﻝ Ọ ڑ ю ⊦ T ڜ ɯ سم П سم ﻝ

˖ ã̃ ɯ ∫ Ẫ

ﻝ

⅞ e П ầ ﻝ ▲

Ẫ ɯ ṓ T ㄱ W

4.

П ╦ ▉ڜ 0.4 Ắ

↑ ⌒ ˓ └ ⌒ ˓ └

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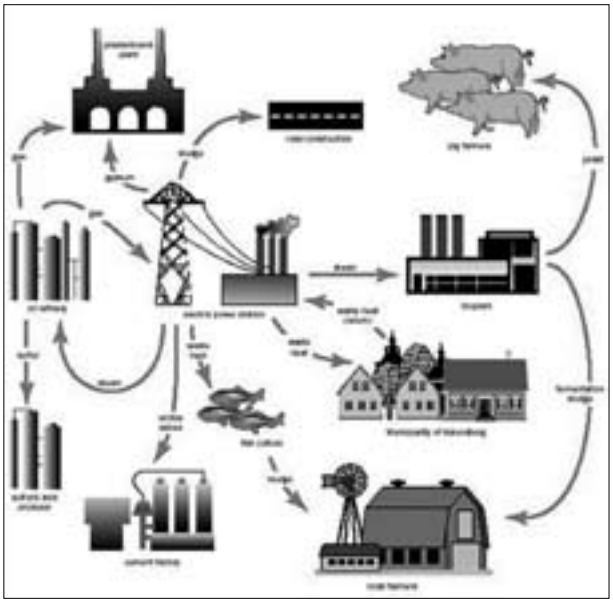

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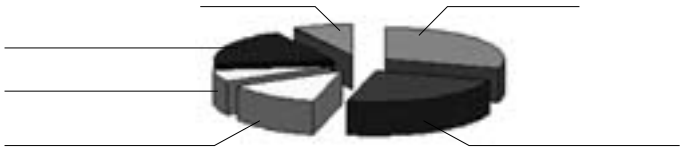

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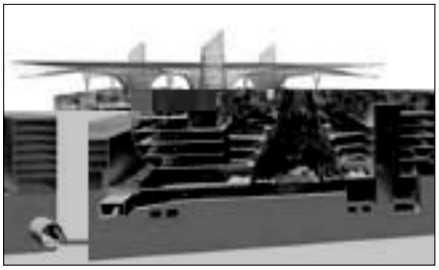

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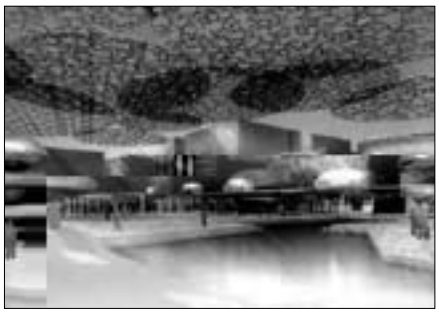

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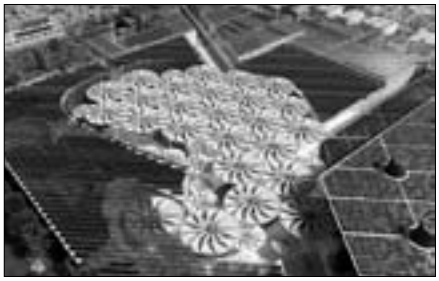

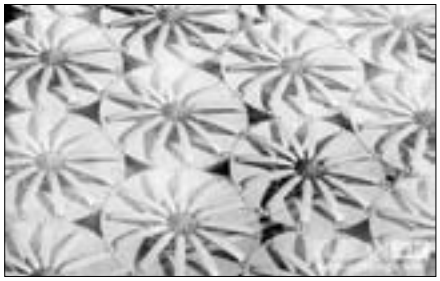

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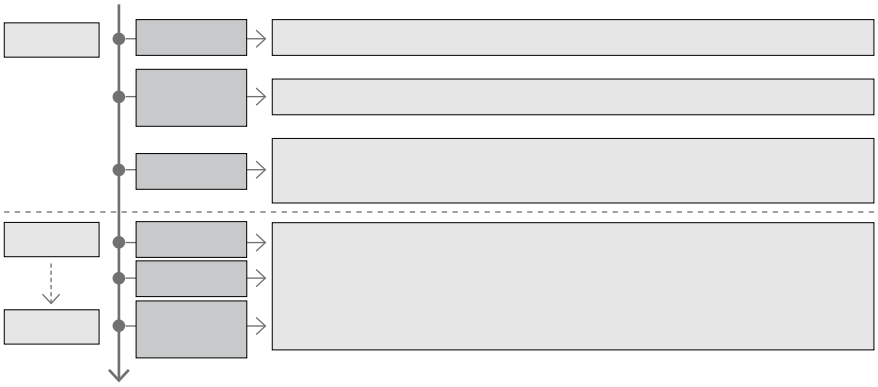

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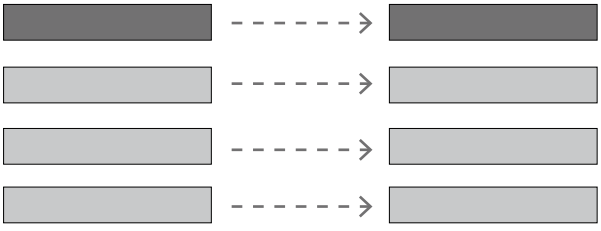

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