

\_\_\_\_\_

\_\_\_\_\_

" "

211106

2001

2020

27

1.2

5

2025

8

2004

2008

5

115261

168403

46.11%

9.22%

11.73

GDP

23.32

1.65

GDP

13.86

GDP

4.2

GDP

7.6

1.5

2006

NJ20130023

14YJA630040  
71373121

2015 3  
40% 60% 70% 5% GDP GDP  
5

[1]



U

$$\leq 1 \quad a_L + a_C + a_I = 1$$

$$a_L = 1,0,0, \quad a_C = 0,1,0, \quad a_I = 0,0,1$$

$$I = 0,0,1$$

$$r = 1 - [a_L - a_L^2 + a_C - a_C^2 + a_I - a_I^2]^{1/2} / \sqrt{2} \quad 2$$

$$E = r_L + r_C + r_I \quad 3$$

$r_L$

$r_C$

$r_I$

$r_1 < r_2 < r_3$

$r_1 < r_2 < r_3$

2.

R&D

7

$$H_j = \sum_{i=1}^7 W_{ij} V_{ij} \quad 4$$

( AHP )

$W_i$

1

1

|     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | R&D |     |     |     |
| W % | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 |

2013

R D FDI

[1]

2014

[2]

2013

[1]

2013 9

[2]

2014

10

1990–2011

GDP

[1]

2013

30

[2]

2013

1998 –2009

[3]

14

1.

FDI

2010

$$EI = a_0 + a_1 PGDP + a_2 SPGDP + a_3 AI + a_4 SI + a_5 TI + a_6 FDI$$

5

$a_0$ :

PGDP GDP

SPGDP PGDP

AI

SI

TI

FDI

GDP

SPGDP

0

GDP

GDP

1

R&D

[1]

2013

16

[2]

PSTR

2013 12

[3]

Shapley

2013 6

2

| GDP | GDP         | GDP   |        |        |       |        |
|-----|-------------|-------|--------|--------|-------|--------|
|     |             |       |        |        |       | /      |
|     | 81.26384354 | 75943 | 24.01% | 75.11% | 4.40% | 0.4927 |
|     | 52.20668556 | 72994 | 52.47% | 45.95% | 4.53% | 0.7391 |
|     | 39.15198805 | 28668 | 52.50% | 34.93% | 1.69% | 1.3499 |
|     | 43.7071055  | 31599 | 51.99% | 35.89% | 1.96% | 0.9573 |
|     | 46.2049431  | 27076 | 50.19% | 37.24% | 1.77% | 1.0834 |
|     | 56.32525342 | 76074 | 42.05% | 57.28% | 9.49% | 0.6525 |
|     | 54.09841946 | 52840 | 52.51% | 41.35% | 7.47% | 0.6222 |
|     | 53.30966342 | 51711 | 51.58% | 43.52% | 4.50% | 0.6084 |
|     | 46.2593908  | 20888 | 52.08% | 33.93% | 1.81% | 0.7854 |
|     | 53.25339241 | 40025 | 51.05% | 39.70% | 5.41% | 0.6656 |
|     | 42.2439339  | 41106 | 54.22% | 36.62% | 3.51% | 0.8886 |
|     | 43.33515117 | 27906 | 48.64% | 37.91% | 2.39% | 0.9480 |
|     | 52.40282374 | 44736 | 50.02% | 45.01% | 5.44% | 0.5848 |
|     | 47.54159833 | 21182 | 50.46% | 35.09% | 2.42% | 1.0411 |

