
" "

211106

2001 " " 2020 27 1.2

5 2025 8

115261 168403 2004 2008 5 46.11% 9.22%

23.32 11.73 GDP 13.86
GDP 1.65 GDP 4.2 GDP
7.6 1.5 2006

" " " NJ20130023
" " 14YJA630040 "
" 71373121 "

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



" "

" U"

" "

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

$$I \in [0,0,1] \quad a_L \in [1,0,0], \quad a_C \in [0,1,0], \quad a_I \in [0,0,1]$$

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

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

r_L

r_C

r_I

$1 < 2 < 3$

$1 < 2 < 3$

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

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

