



( [9]),  
Notten Ph. [13], Wack P. [14]).

(Godet M. [12], Van

- ,  
 ,  
 [11].

• [11]

[8]

$\sim_i^{(t)}$

$$\hat{i} = \sqrt{\sum_{t=1}^T (i^{(t)})^2}; \tag{1}$$

$$\sim_i^{(t)} = \frac{i^{(t)}}{\hat{i}}, \tag{2}$$

(  $i^{(t)}$  );  $n -$  ( ) ( $i = \overline{1, n} -$   
( ) ( $t = \overline{1, T} -$

, ;  $T -$  );  $\hat{i} -$   
- ( )

[8]

( )

( )

:

$$D^{(t)} = \sqrt{\sum_{i=1}^n \left( \tilde{y}_i^{(t)} - \bar{y}_i \right)^2}, \tag{3}$$

$$\bar{y}_i = \frac{\sum_{t=1}^T \tilde{y}_i^{(t)}}{T} - \text{ ( )}$$

$$I_k^{(t)} = 1 - \frac{D^{(t)}}{\sqrt{\sum_{t=1}^T (D^{(t)})^2}}, \tag{4}$$

$$k = \overline{1, K} -$$

(4)

0 1

(3),

$$I_{\Sigma}^{(t)} = \sum_{k=1}^K \frac{I_k^{(t)}}{\sqrt{\sum_{k=1}^K (I_k^{(t)})^2}}. \tag{5}$$

1.  $\frac{1}{1-x}$  —  $\sum_{n=0}^{\infty} x^n$  :  
 $\frac{1}{1-x^2} = \frac{1}{(1-x)(1+x)} = \frac{1}{2} \left( \frac{1}{1-x} + \frac{1}{1+x} \right)$   
 $\frac{1}{1-x^2} = \frac{1}{2} \sum_{n=0}^{\infty} x^n + \frac{1}{2} \sum_{n=0}^{\infty} (-x)^n$   
 $\frac{1}{1-x^2} = \frac{1}{2} (1 + x + x^2 + \dots) + \frac{1}{2} (1 - x + x^2 - \dots)$   
 $\frac{1}{1-x^2} = 1 + x^2 + x^4 + \dots$

2.  $\frac{1}{1-x^3} = \sum_{n=0}^{\infty} x^{3n}$  —  $\frac{1}{1-x^3} = \frac{1}{(1-x)(1+x+x^2)}$   
 $\frac{1}{1-x^3} = \frac{1}{3} \left( \frac{1}{1-x} + \frac{1-\omega}{1-\omega x} + \frac{1-\omega^2}{1-\omega^2 x} \right)$  [3]:  
 $\frac{1}{1-x^3} = \frac{1}{3} \sum_{n=0}^{\infty} x^n + \frac{1-\omega}{3} \sum_{n=0}^{\infty} (\omega x)^n + \frac{1-\omega^2}{3} \sum_{n=0}^{\infty} (\omega^2 x)^n$   
 $\frac{1}{1-x^3} = \frac{1}{3} (1 + x + x^2 + \dots) + \frac{1-\omega}{3} (1 + \omega x + \omega^2 x^2 + \dots) + \frac{1-\omega^2}{3} (1 + \omega^2 x + \omega x^2 + \dots)$   
 $\frac{1}{1-x^3} = 1 + x^3 + x^6 + \dots$

3.  $\frac{1}{1-x^4} = \sum_{n=0}^{\infty} x^{4n}$  —  $\frac{1}{1-x^4} = \frac{1}{(1-x)(1+x)(1+x^2)}$   
 $\frac{1}{1-x^4} = \frac{1}{4} \left( \frac{1}{1-x} + \frac{1+x}{1+x^2} + \frac{1-x}{1+x^2} \right)$  [1]:  
 $\frac{1}{1-x^4} = \frac{1}{4} \sum_{n=0}^{\infty} x^n + \frac{1+x}{4} \sum_{n=0}^{\infty} (-x)^n + \frac{1-x}{4} \sum_{n=0}^{\infty} (-x)^n$   
 $\frac{1}{1-x^4} = \frac{1}{4} (1 + x + x^2 + \dots) + \frac{1+x}{4} (1 - x + x^2 - \dots) + \frac{1-x}{4} (1 - x + x^2 - \dots)$   
 $\frac{1}{1-x^4} = 1 + x^4 + x^8 + \dots$

(5)

40

 $I_{\Sigma}^{(t)}$ 

(5)

( 2006 – 2014 ).

 $I_{\Sigma}^{(t)}$  –

( . 1)

1.

 $I_{\Sigma}^{(t)}$ 

\*)

/	( . )	$I_{\Sigma}^{(t)}$	'	%
1	2	3	4	5
1	.2006	0,444554	–	–
2	.2006	0,435357	-0,009197245	-2,07
3	.2006	0,430036	-0,005321142	-1,22
4	IV.2006	0,443962	0,013926584	3,24
5	.2007	0,44276	-0,001201897	-0,27
6	.2007	0,446891	0,004130829	0,93
7	.2007	0,464937	0,018045674	4,04
8	IV.2007	0,474868	0,009931521	2,14
9	.2008	0,517743	0,042874549	9,03
10	.2008	0,522771	0,005028581	0,97
11	.2008	0,528267	0,005495512	1,05
12	IV.2008	0,543045	0,014778144	2,8
13	.2009	0,542313	-0,000732057	-0,13
14	.2009	0,538703	-0,003610489	-0,67
15	.2009	0,543406	0,004703871	0,87
16	IV.2009	0,549334	0,005927819	1,09
17	.2010	0,568087	0,018752421	3,41
18	.2010	0,567839	-0,000247767	-0,04
19	.2010	0,569132	0,001293244	0,23
20	IV.2010	0,574708	0,005575865	0,98
21	.2011	0,575806	0,001098198	0,19
22	.2011	0,583135	0,007328632	1,27
23	.2011	0,582368	-0,00076674	-0,13
24	IV.2011	0,586098	0,003730092	0,64
25	.2012	0,581445	-0,004653348	-0,79
26	.2012	0,583249	0,001803999	0,31
27	.2012	0,588723	0,005474133	0,94

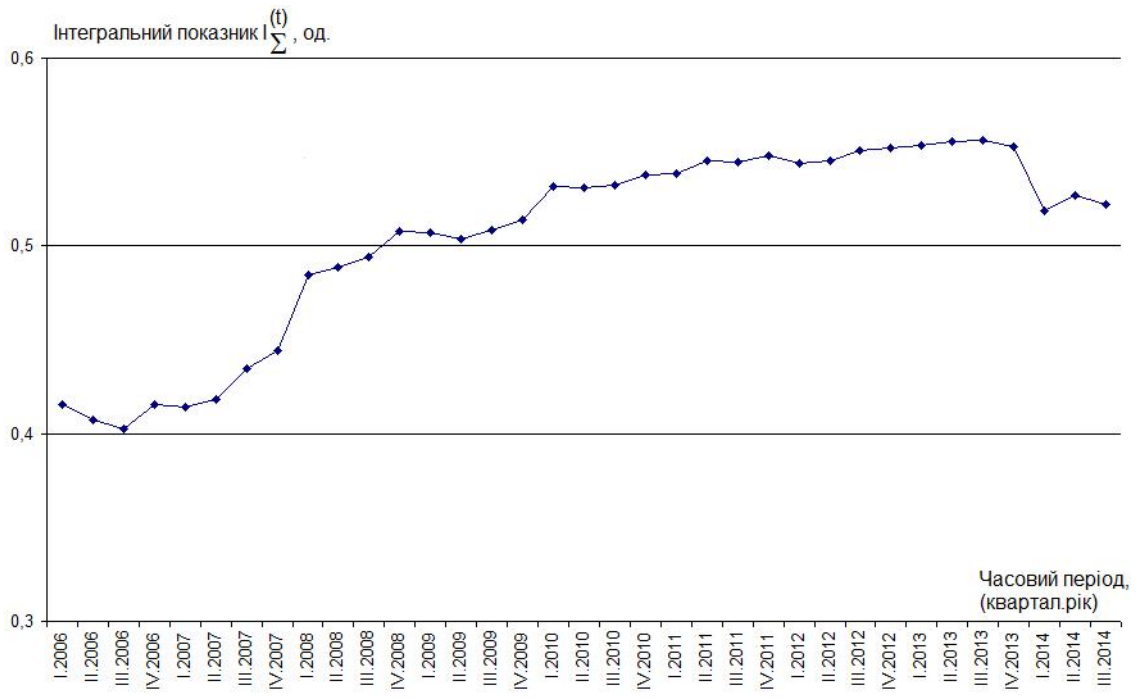
1

1	2	3	4	5
28	IV.2012	0,590107	0,001383997	0,24
29	.2013	0,592078	0,001970847	0,33
30	.2013	0,594315	0,002236766	0,38
31	I.2013	0,594522	0,00020701	0,03
32	IV.2013	0,553073	-0,002913854	-0,52
33	.2014	0,518508	-0,034564553	-6,25
34	.2014	0,527027	0,008518518	1,64
35	.2014	0,521794	-0,005232358	-0,99

\*) : (5) [1, 3, 10]

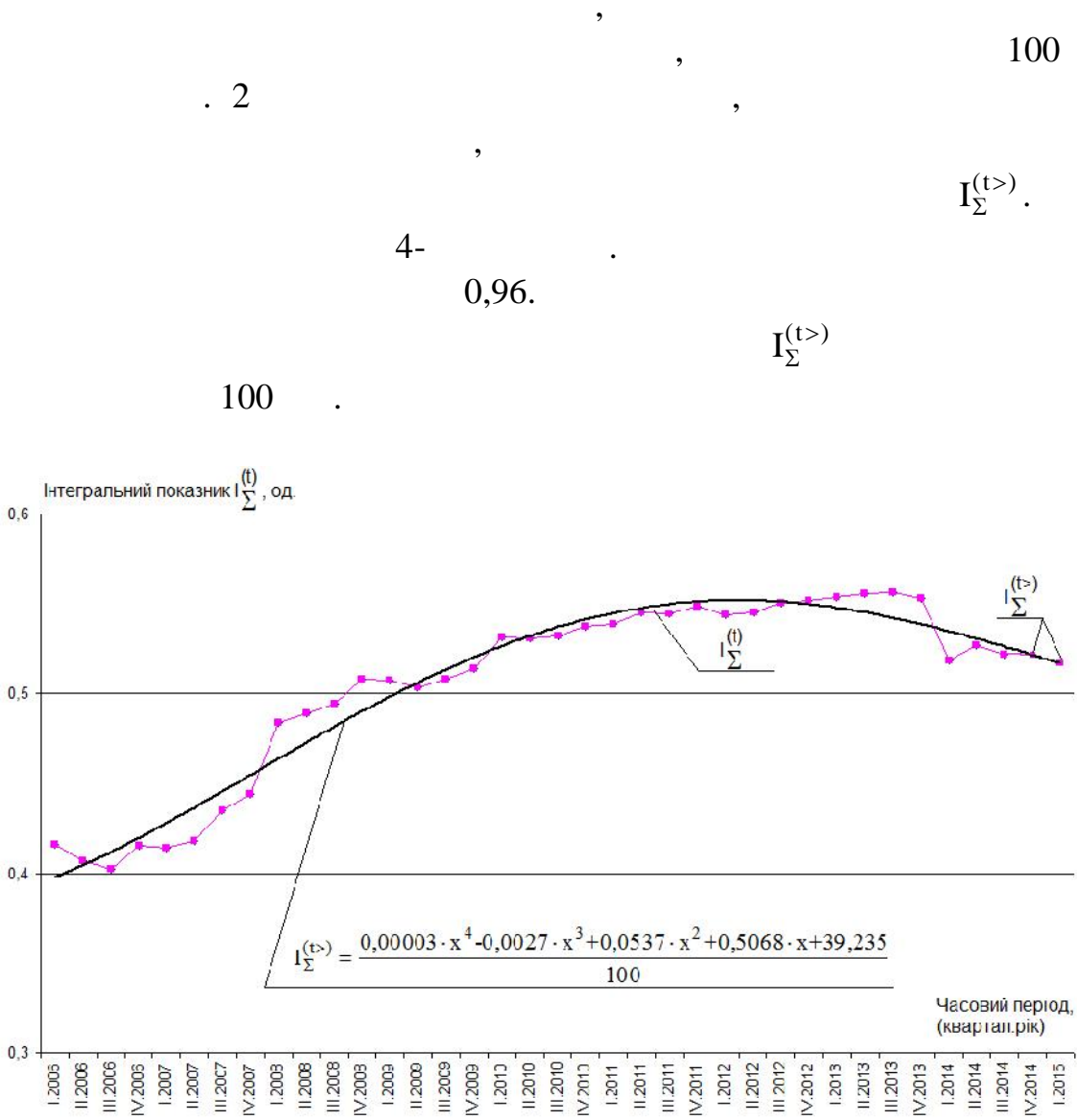
$I_{\Sigma}^{(t)}$

. 1. IV 2013 ,  $I_{\Sigma}^{(t)}$  2009 .



. 1.-  $I_{\Sigma}^{(t)}$  \*)

. 2  
2 - V 2014 2015 .



\*) . 2. -  $I_{\Sigma}^{(t>)*}$  MS Excel

2.  $I_{\Sigma}^{(t>)*}$

/	( . )	$I_{\Sigma}^{(t>)*}$
36	V.2014	0,525127
37	.2015	0,520118

\*) : . 1

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 (5),  
 (4),  
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 1,  
 2014 ,  
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 : **1.** [ c].  
 - : [http://bank.gov.ua/control/uk/publish/article?art\\_id=4919415&cat\\_id=36800](http://bank.gov.ua/control/uk/publish/article?art_id=4919415&cat_id=36800). **2.**  
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**3.** ( , 2007, )  
 [ c]. - : <http://www.imf.org/external/pubs/ft/fsi/guide/2006/pdf/rus/guide.pdf>. **4.**  
 / . . // - . - 2004. - 4. - . 4-26. **5.** . .  
 //  
 . - : , 2005. - 3(6). - . 74-80. **6.** -  
 // - 2006. - 1. -  
 . 27-31. **7.** . .  
 // . . « - : . -  
 : , 2012. - . 1 (12). - . 66-75. **8.** . .  
 //  
 : . - 2012. - 1(5). - . 34-40. **9.** . .  
 //  
 . - 2011. - . 9, . 2. - . 380-384. **10.** , ,  
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<http://www.bank.gov.ua>. **11.** . .  
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 . - 2014. - 3(15). - . 63-76. - - **12.** Godet M. Creating Future. Scenario planning as a  
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**14.** Wack P. Scenarios: Shooting the Rapids // Harvard Business Review. - 1985. - 63, 5 - pp.72-29.

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