, << >>

-

Agile

4013 -2 230105 65 -

<<_>>> ______ 2013 .

1.			4
2.			5
2.1.		-	5
	2.1.1.		5
	2.1.2.		6
2.2.			7
	2.2.1.		7
	2.2.2.		9
2.3.			0
	2.3.1.		0
	2.3.2.		1
2.4.			2
	2.4.1.	BPMN	3
	2.4.2.	YAWL 1	4
2.5.			5
	2.5.1.		5
	2.5.2.	Workflow 1	6
	2.5.3.	Workflow 1	7
2.6.			8
	2.6.1.		8
	2.6.2.		8
2.7.			9
	2.7.1.		9
	2.7.2.	2	20
3		2	1

3.1.																					•			 21
	3.1.1	l.										•												 21
	3.1.2	2.															•							 22
	3.1.3	3.							•								•	•				•		 22
	3.1.4	1.							•								•	•		•				 22
	3.1.5	5.															•							 22
3.2.																	•							 22
3.3.																•		•			•		•	 22
4.									•	•		•	•	•	• •			•			•		•	 23
5.						•			•	•	•	•	•	•	•			•	•	•	•		•	 24
									•			•		•				•			•		•	 25
																•		•	•	•	•		•	 28
											(M	G	Bl	PN	1N	J v	7. 2	2.()			 30

2.1.

,

2.1.1.

•

,

. - , [1, . 31], [1, . 148], ,

,

,

[2] - , <<

· ·

>>. [3, . 55]

<< --- ,

>>.[3, .
55]

2.1.2.

- (. [4, . 17 -- 18], [5], [1, c. 148]) :

,

,

_

,

_

,

-

,

-

-

•

,

, - .

[6, .110]

,

. .

2.2.

2.2.1.

, [7], ,

•

,

,

,

[8, .27], [1, .30 - 31], [8, .30][1, . 31] << >>. [8, . 30], [9, .6])

, PMBOK [10, .8],

· , -

.

[12, .34]

• •

;

•

(

,

,

•

,

,

,

[13], [12].

2.3.

[8, .14]

, , -

2.3.1.

2006 . -

, [4, . 27].

- , -

[8, . 15], - -

```
BPMN (
                                                   ), EPC (c
        ).
                                                                      [8, . 15]
                                         SADT (Structured Analysis and Design
Technique) IDEF(Integration Definition for Functional Modeling.)
               [8, .17]
                                                                      c
                     UML (Unified Modeling Language).
          [8, .18]
            BPMN (Business Process Model and Notation), ARIS (Architecture of
Integrated Information Systems), EPC (
                                                                  ).
2.3.2.
                                                         [14]
                                                                C = (P, T, I, O),
                                 [14, . 15]
```

4- :

1. *P*;

2. *T*;

3. *I*;

4. *O*;

,

,

. [14, . 18] G = V, A,

 $v_i \in V$ $a_i \in A$.

2.4.

-

2.4.1. **BPMN**

BPMN - , , — — , — — , — — , — — , — — , — — , — — , — — , — — — , — — , —

.

,

BPMN, :[15, .30] (flow objects); 1. (Data); 2. 3. (connecting objects); (swimlane); 4. 5. (artifacts). . .). BPMN 2.4.2. YAWL YAWL (Yet Another Workflow Language) (Aalst) (Hofstede) 2003 [16],

, [16, c. 3] :

YAWL

•

•

•

•

YAWL, [16, .10]

, (. 2.3.2 . 11).

2.5.

2.5.1.

WfMC (Workflow),
WfMC [17, .9], , , ,

(workflow engine).

, ,

,

,

,

-•

> [18, . 31 -- 35], workflow-— ,

()—

•

2.5.2. Workflow

Workflow,

[19, . 127], , Workflow ,

- ,

Workflow, [19], 2.5.3. Workflowworkflow Cunningham LLP

Zagiel S.A.,, Canningham [20], [21]. LLP

Zagiel S.A.

2.6.

2.6.1.

BPM- [22]
- (), <<
, , , BPMS

- ,

2.6.2.

- , <<

>> (Handbook on Business Information Systems) [23]

- .

:

-

- . __

,

_

- ,

•

_

,

___ ·

2.7.2.7.1.

PMBOK Guide [10, . 33]

•

•

2.7.2.

. [24, . 46] [12, c. 91 -- 93]),

:

• ;

• ;

• ;

• ;

• ;

• ;

• ;

• ;

3

3.1.

3.1.1.

([25], [26])

,

[27]

,

,

, [27],

,

•

- 3.1.2.
- 3.1.3.
- 3.1.4.
- 3.1.5.
- 3.2.
- 3.3.

1.	•
	; , 2006 528.
2.	Davenport T. H. Process Innovation: Reengineering Work through Information Technology. Boston, MA, USA: Harvard Business School Press, 1993.
	reclinology. Boston, WA, OSA. Harvard Business School Fless, 1993.
3.	
	. ; , , , , 2006 287
	•
4.	, , ,
	; , 2006 240.
5.	
	. : : , 1997 224
	•
6.	. : " 2005 608.
7.	
	: . , . , . , . , . , . , . , . , . , .
	· - ·
8.	: : : :
	- , 2013 118.

10. Institute P. M. A Guide to the Project Management Body of Knowledge (PMBOK Guide) - Third Edition. Project Management Institute, 2004. P. 388.

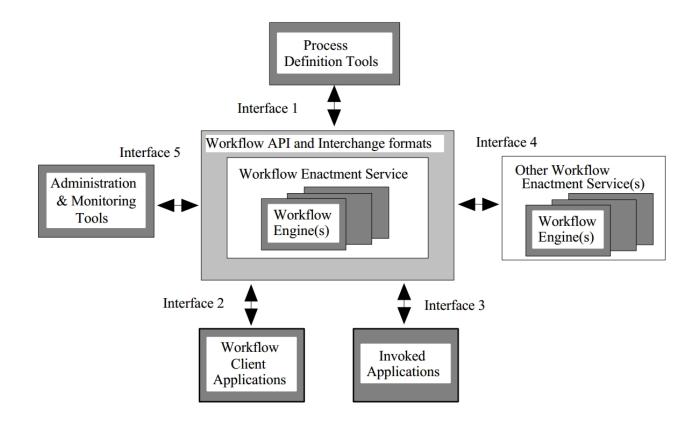
edition edition. Indianapolis: John Wiley & Sons, Inc., 2012. P. 710.

9. Wysocki R. K. Effective Project Management. Traditional, Agile, Extreme. 6th

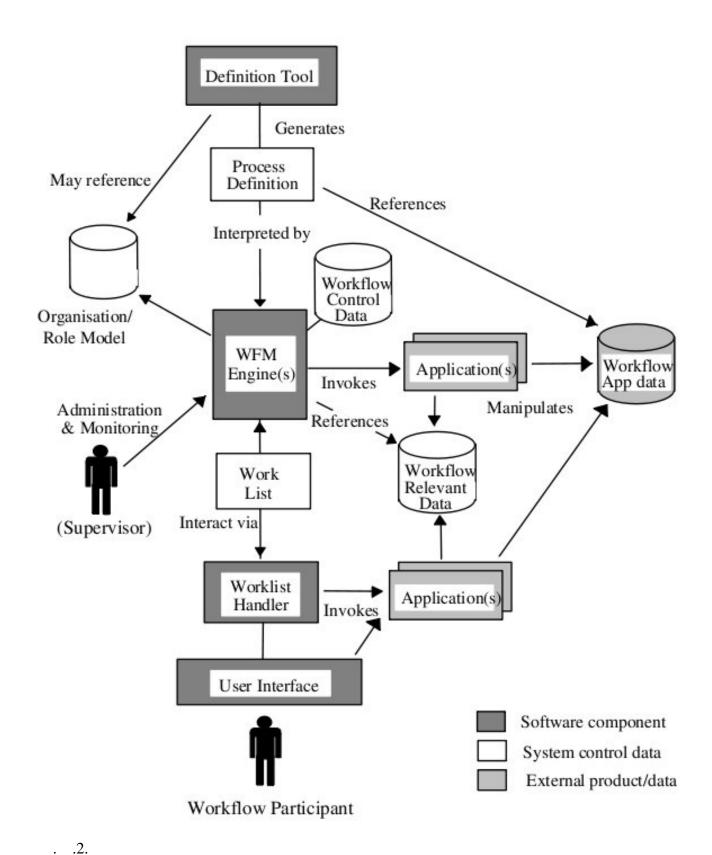
11. Institute P. M. A Guide to the Project Management Body of Knowledge (PMBOK

	Guide) - Fifth Edition. Project Management Institute, 2004. P. 388.
12.	
	<< - >>, 2004. I 400.
13.	
14.	
	1984 264
15.	Group O. M. Business Process Model and Notation (BPMN) Version 2.0. 2011 . http://www.elma-bpm.ru.
16.	W. van der Aalst A. t. H. YAWL: Yet Another Workflow Language (Revised Version). Queensland University of Technology, Brisbane, 2003.
17.	Coalition W. M. Workflow Management Coalition. Terminology & Glossary Issue 3.0 edition. Hampshire, United Kingdom: Workflow Management Coalition 1999. P. 65.
18.	Wil van der Aalst K. M. v. H. Workflow Management. Massachusetts, London The MIT Press Cambridge, 2002. P. 363.
19.	· · · · · · · · · · · · · · · · · · ·
20.	Bragonier D. WORKFLOW IN A NEW AGE // CA Magazine. 2013. Vol. 146 no. 7. P. 30 34.
21.	Adams J. A SMOOTHER FLOW OF WORK // Bank Technology News. 2012 Vol. 25, no. 8. P. 22 25.

22.	BPM. BPMS (- ,).
	URL: http://abpmp.org.ru/resource/bpm-glossary (: 29.11.13).
23.	M. El-Mekawy N. A., K. Shahzad. Modeling and M	lanaging Business Processes //
	Handbook on Business Information Systems / Ed	I. by M. S. A. Gunasekaran.
	Singapore: World Scientific Publishing Co., 2010. I	P. 943.
24.	Charvat J. Project management methodologies: sele	cting, implementing, and sup-
	porting methodologies and processes for projects.	Hoboken, New Jersey: John
	Wiley & Sons, Inc., 2003. P. 264.	
25.	. :	, 2001 336.
26.		
		//
	. 2003.	Vol. 4. P. 8993.
27.		: -
	, 2009 120.	



. .1. "
(Workflow Reference Model) [17, .23]



(Generic Workflow Product Structure) [17, . 39]

OMG BPMN v. 2.0

.1.

OMG BPMN version 2.0 [15]

(T)	, -	
(Event)	-	
	•	
	() (-	
)	
	,	
	<u>-</u>	
	- , -	
	: (Start), -	
	(Intermediate)	
	(End).	
	, -	
(Activity)	,	
	,	
	()	
	,	
	: (SubProcess) (Task). ,	
	(SubProcess) (Task). ,	
	- -	
	·	
	, -	

.1 (

	-	
(Gateway)	,	
	,	
	,	
	,	
_	-	.
(Sequence	,	
Flow)	-	
_	-	
(Message		
	,	
Flow)	-	
	BPMN	
	———·	
	-	
	-	
	`	
	-).	
(Aggariation)		
(Association)		
	-	
	,	
	· -	
	,	
		·····>
	,	_
	•	
	,	
	(,	
).	
	<u> </u>	

.1 (

(Pool)	-	
	,	
	, , ,	Name
	<< >>(B2B).	
	-	
	-	
	. ,	
	,	
	<< >>.	
(T		
(Lane)	(
	, (-	Name Name
).	Z Ba
	-	
-	-	
(Data	,	
object)	-	
	,	
	<u> </u>	1

.1 (

(Message)	business PartnerRole business PartnerEntry).	
(,		
	,	
-		
	-	
)		
(Group)	,	
	, -	
	•	[
	,	
-	-	
(-	, -	
- \	-	Descriptive Text Here
) (Text	, DDMNI	Here
Annotation)	BPMN .	