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1.3.1.	12
1.3.2.	13
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2.1.1.	21
2.1.2.	23
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3.1.1.	32
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 [8, . 15],
BPMN (), *EPC* (с
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SADT (Structured Analysis and Design Technique) IDEF (Integration Definition for Functional Modeling).

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[8, . 17] c -

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UML (Unified Modeling Language).

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[8, . 18]

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BPMN (Business Process Model and Notation), ARIS (Architecture of Integrated Information Systems), EPC ().

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- [14] -
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- [14, . 15] $C = (P, T, I, O)$,
- 4- :
1. P ;
 2. T ;

- 3. $I;$
- 4. $O.$

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$$G = V,A,$$

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$$P (\qquad) \quad T$$

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 :[15, . 30]
 1. (flow objects);
 2. (data);
 3. (connecting objects);
 4. (swimlane);
 5. (artifacts).
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YAWL

YAWL (Yet Another Workflow Language)

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(Aalst)

(Hofstede) 2003

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WfMC [17, . 9]

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(Workflow)

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(workflow engine).

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[18, . 31 -- 35], workflow-

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Workflow, [19,

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Cunningham LLP Zagiel S.A., [20],

[21]. Cunningham LLP

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Zagiel S.A.

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1.4.2.

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. BPM- [22] -

- (, BPMS) « ,

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»[23]

1.4.3.

PMBOK Guide [10, . 33]

[24, . 46]

[12, c. 91 - 93]),

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[30], [31],

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 eTOM [45] — SCOR [46] —
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 APQC [47].

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Gartner Inc. ([48]) Forrester Research [49]) 2009 – 2013 .

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[48], [49],

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The Forrester Wave [50], [51], [52], [53],

Gartner Magic Quadrant [54], [55], [56], [57].

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: PegaSystems, IBM, Appian, Progress Software, Metastorm

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: Fujitsu, EMC, Global360, Bosh Software Innovations

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: Appian BPM Suite[58], OpenText MBPM

[59], Cordys BPMS [60], Pegasystems BPM [61], Fujitsu Interstage BPM [62], Tibco Active Matrix BPM [63];

: jBPM [64], BonitaBPM [65], Taverna Workflow [66], Activiti BPM [67], Pegasus [68], Intalio BPMS [69].

2.2.3.

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 , OpenText (Cordys BPMS, MBPM),
 Appian. , OpenText Appian
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 (Taverna Workflow, Pegasus),
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 (jBPM, Activiti)

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GERAM [72]. GERAM

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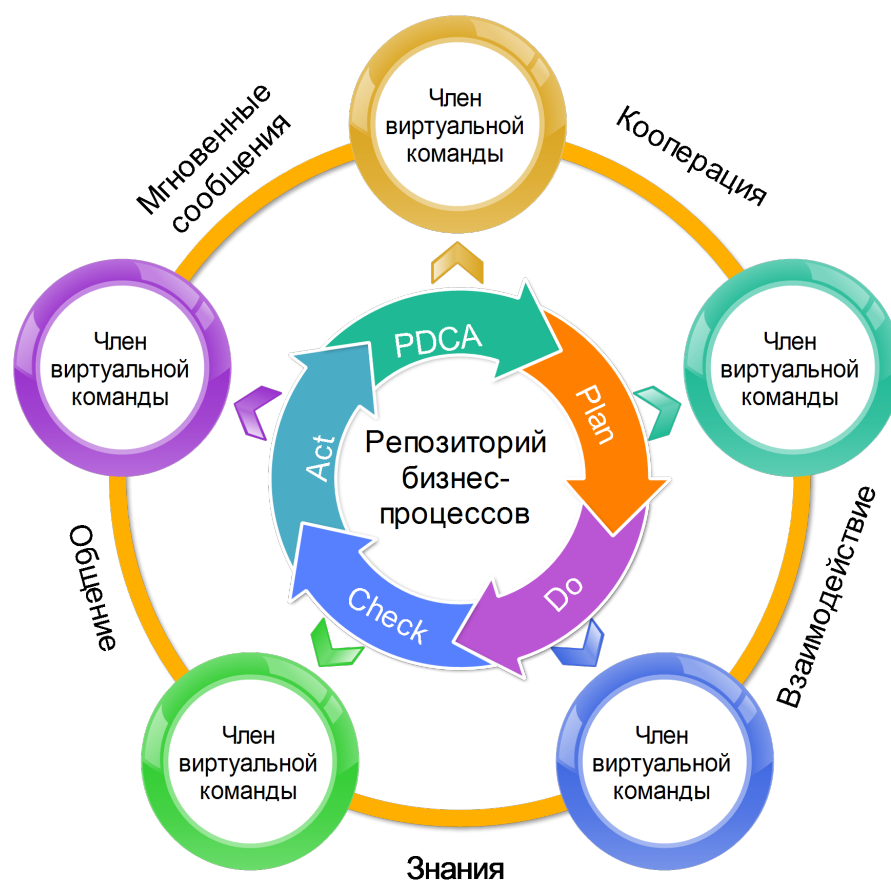
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3.1.4.

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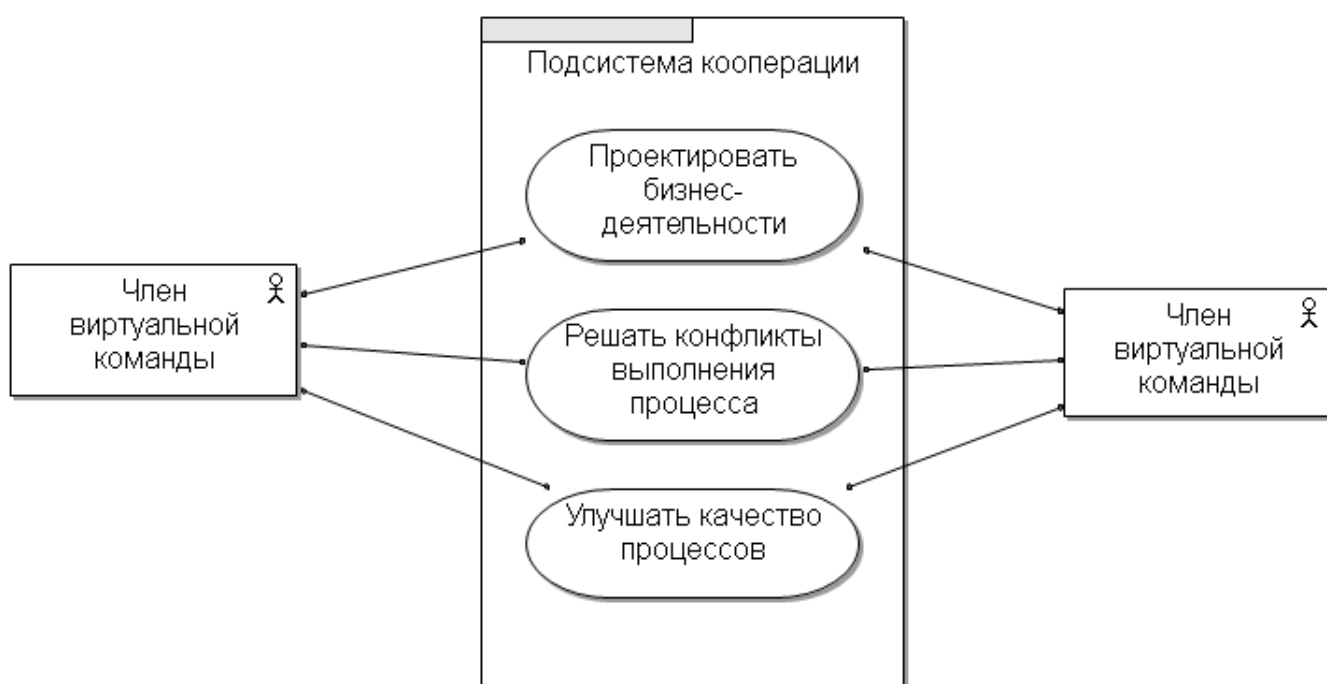
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jBPM Activiti.

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jBPM Activiti.

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(BPMN 2.0 XML), -

jBPM

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Drools, XML jPDL. Activiti, -

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Alfresco [74],

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Activiti Apache, -

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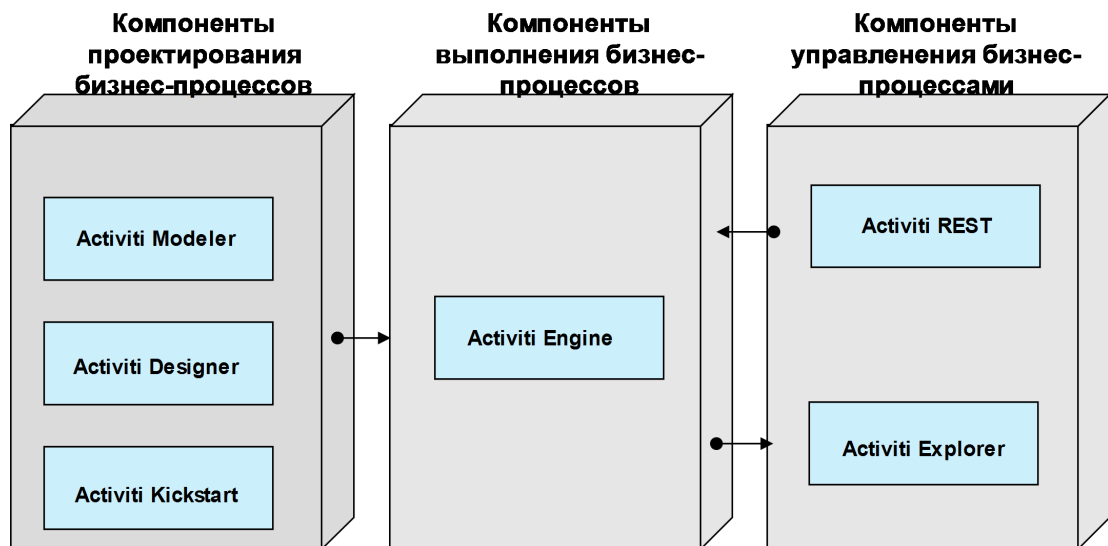
Activiti. Activiti -

- (Activiti

Modeler, Activiti Designer)

(Activiti Engine). . ??

Activiti.



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Activiti [67]

Eclipse IDE.

BPMN 2.0 XML.

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OpenFire [79].

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LDAP,

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Open Source Apache,

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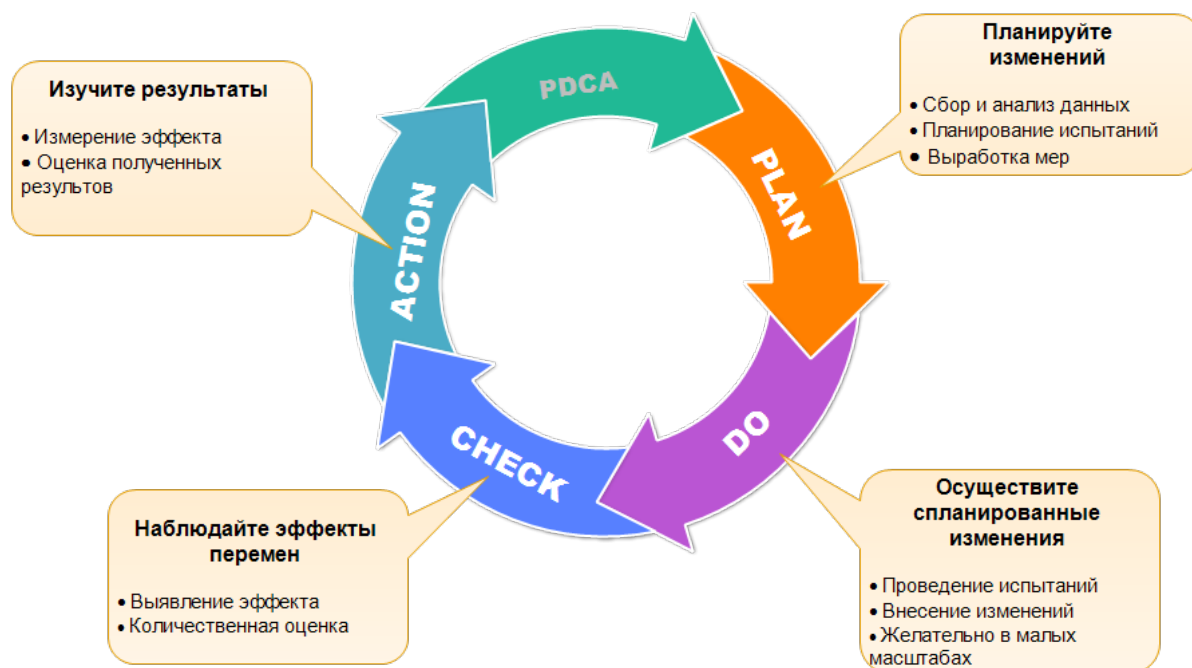
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Appian BPM Suite	9	8	9	7
OpenText MBPM	8	7	8	10
Cordys BPMS	10	8	6	9
Pegasystems BPM	10	9	10	9
Fujitsu Interstage BPM	7	7	6	5
Tibco Active Matrix BPM	6	10	9	9
jBPM	8	7	8	7
BonitaBPM	8	8	10	7
Taverna Workflow	5	10	6	7
Activiti BPM	7	6	7	5
Pegasus	5	10	8	8
Intalio BPMS	9	6	8	5

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	Des	Org	Ctrl	Res
Appian BPM Suite	8	5	8	6
OpenText MBPM	7	8	6	7
Cordys BPMS	3	10	3	1
Pegasystems BPM	4	10	5	9
Fujitsu Interstage BPM	8	5	8	8
Tibco Active Matrix BPM	0	1	2	0
jBPM	2	6	2	0
BonitaBPM	7	5	3	3
Taverna Workflow	3	2	4	0
Activiti BPM	0	2	0	2
Pegasus	1	0	1	0
Intalio BPMS	1	1	3	1

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