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Abstract: The article analyzes the models of the innovation processes from the view of the role of knowledge as one of the main sources for their initiation and implementation. A historical review is presented of systemized series of models, utilized for analysis and management of the innovation processes.



1950 1990 .<sup>2</sup>

(technology-push)

(market-pull).

1.

2.

3.

4.

5.

(technology-push)



50-60-

20

( , ) -  
( )

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”

”

” . . .

: (market-pull)



.3.

-

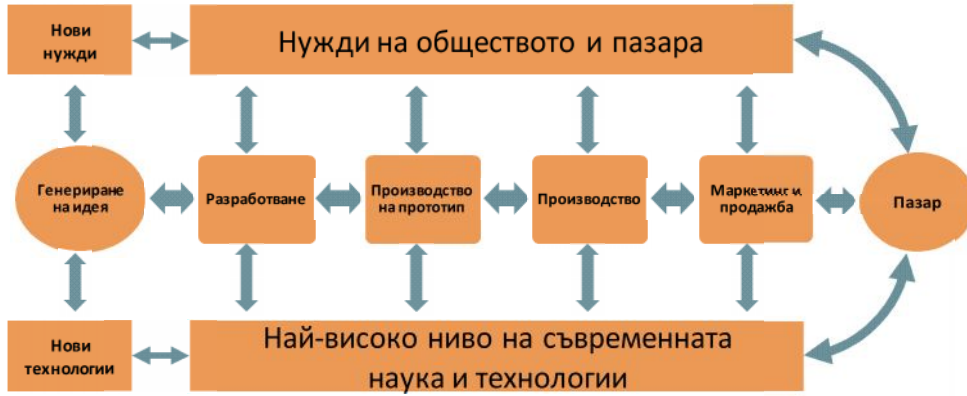
60-

70-

1960 .

)

(coupling model)



. 4.

-

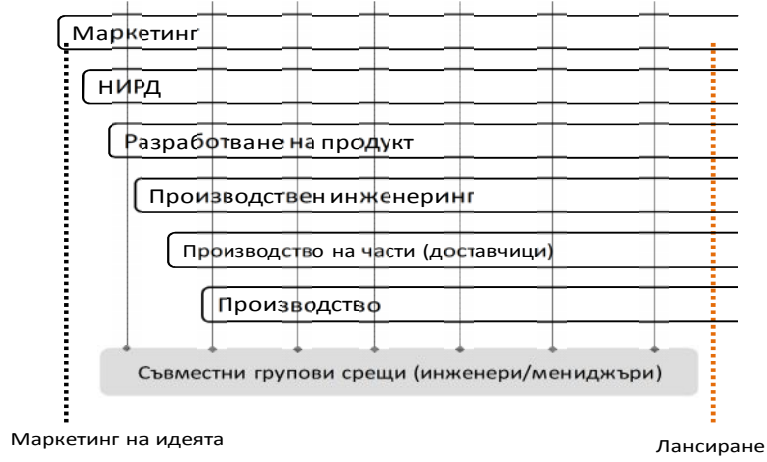
70-

80-

70-

( ) ( ) -

:



. 5.

80-

90-

4

1980-

7



. 6.

90-

90-





” ”

7

” ”),

(start-up)

( . .

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8

Apple.

1:

1950		
↓		
1960		
↓		
1970		
↓		
1980		
↓		
1990		
↓		
2000		
↓		

: A Framework for Managing the Innovation Process<sup>9</sup>



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<sup>1</sup> Rod Coombs, Paolo Saviotti, Vivien Walsh. *Economics and Technological Change*. Rowman & Littlefield. 1987. pp. 10-11

<sup>2</sup> Roy Rothwell, (1994) "Towards the Fifth generation Innovation Process", *International Marketing Review*, Vol. 11. 1, pp. 7-17

<sup>3</sup> Ali Izadi, Ferial Zarrabi, Farinoosh Zarrabi. *Firm-Level Innovation Models*. *Procedia - Social and Behavioral Sciences*. Volume 75. 2013. pp. 147

<sup>4</sup> Andy Neely, Jasper Hii. *Innovation and business performance: A literature review*. University of Cambridge. 1998. pp. 14

<sup>5</sup> Henry Chesbrough. *Open Innovation. The New Imperative for Creating and Profiting from Technology*. Harvard Business School Press. 2003. pp. 43-45

<sup>6</sup> Henry Chesbrough. *Open Innovation: A New Paradigm for Understanding Industrial Innovation*. Oxford University Press. 2006. . 2

<sup>7</sup> Henry Chesbrough, Jason M. Eichenholz. *Open Innovation in Photonics*. SPIE Professional 2013.

<sup>8</sup> Oana-Maria Pop. *InnovationManagement.se*. <http://www.innovationmanagement.se/2013/07/17/open-innovation-past-and-present-an-exclusive-interview-with-henry-chesbrough/>

<sup>9</sup> Niek Du Preez, Louis Louw. *A framework for managing the innovation process*. *IEEE Xplore*. 2008. . 3

<sup>10</sup> Smith, K. *Industrial structure, technology intensity and growth: issues for policy*. *DRUID conference on National Innovation Systems, Industrial Dynamics and Innovation Policy, Rebuild*. 1999. pp. 2