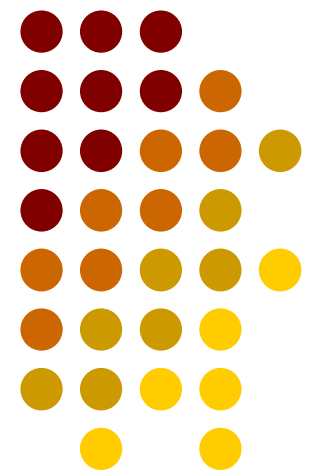


Inovação e Geração de Produtos

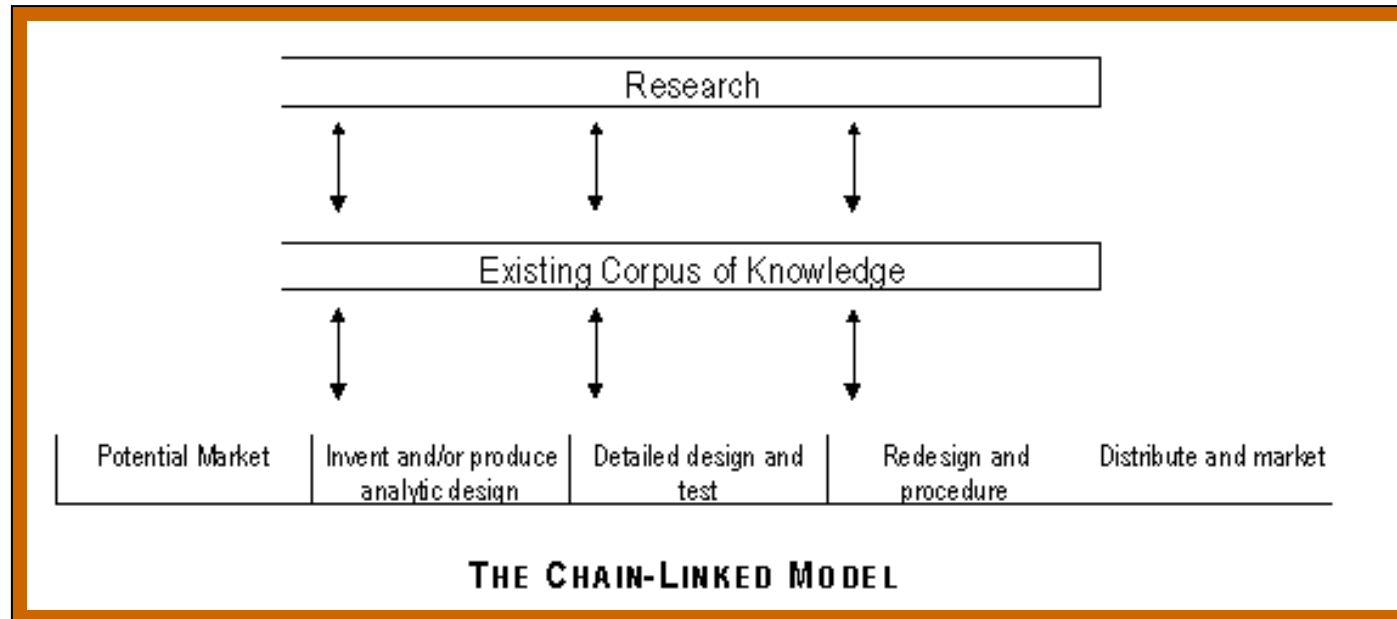
Modelos e Reflexões sobre
Oportunidades de Mercado



Initial Considerations

- Innovation starts from a market perspective, and not from a Science & Technology one.
- Necessary ingredients for innovation are:
 - Market needs (known or yet to be uncovered)
 - Skills and Creativity (in S&T and Market and Sales)
 - An environment for divergent thinking (where “aliens can succeed”)
 - Urgent patience (to evaluate options)
 - Convergent thinking (to implement chosen alternatives)

Starting Point



© Darius Mahdjoubi, 1997 http://www.gslis.utexas.edu/~darius/non_mdI/non_mdI.html

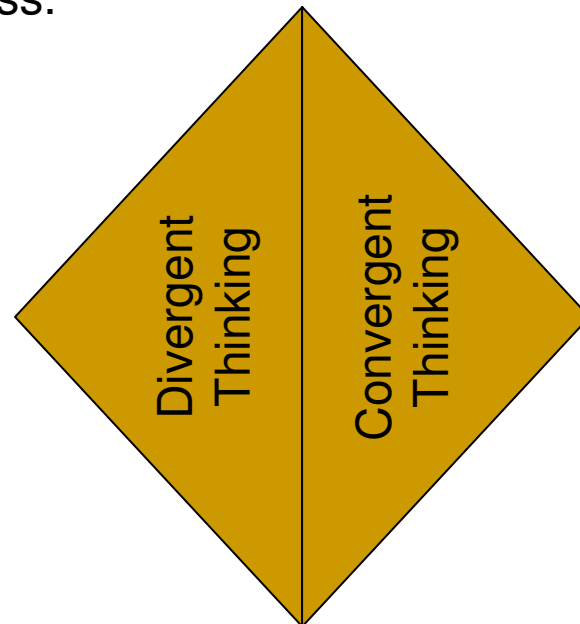
Proposed by the first time in 1985, by Stephen Kline (Stanford University), the chain-linked innovation model emphasizes the market focus and the multiple interactive process between Market and Research (enterprise and academia).

Divergence and Convergence in the Creativity Process

Creativity, an essential ingredient in the innovation process, happens or ignites in environments in which divergent thinking (idea and options generation) is well balanced with convergent thinking (options selection).

Too much or too little of either process can lead to failures in the innovation or development processes.

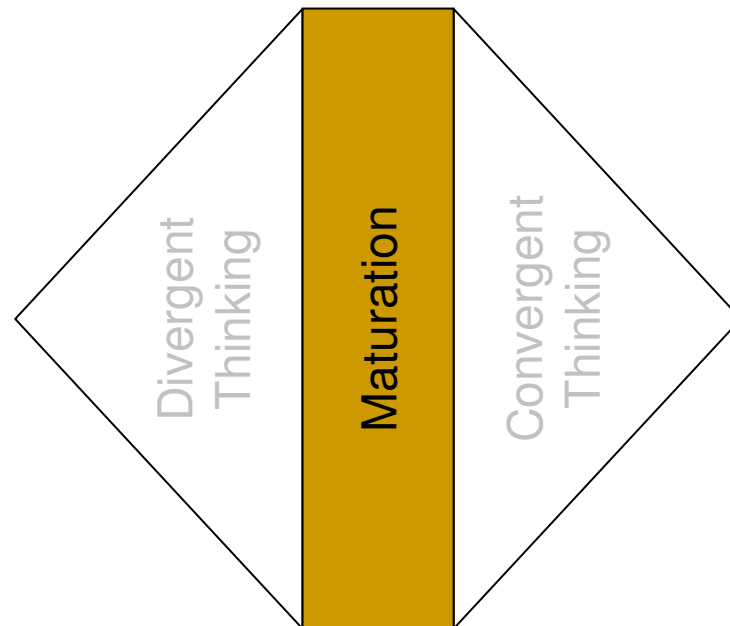
Management of innovation is the management of divergence and convergence in the creativity process.



Time to Mature

Reaching convergence towards the choice of alternative courses of action in innovation is a trick process. Innovation teams require a time to think over, analyze, and mature ideas developed in the divergent thinking process, before they can select alternatives in the convergent process.

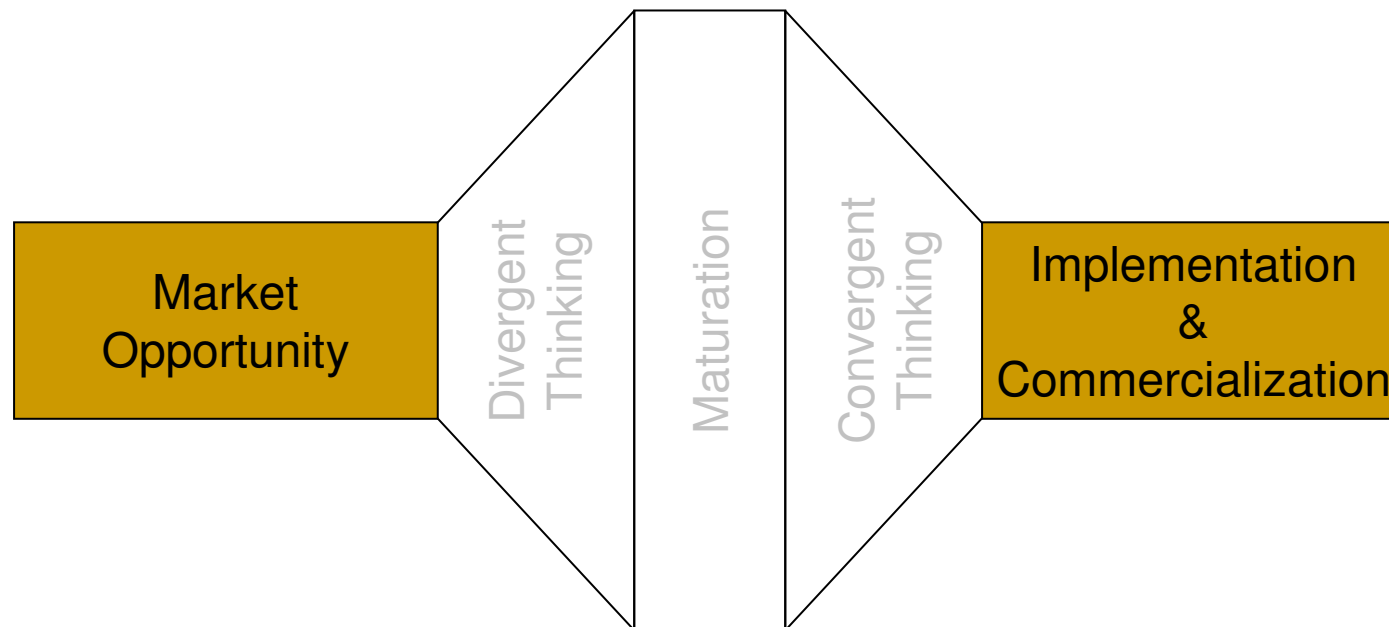
Successful innovation management creates necessary and sufficient space and time for (urgent) maturation to happen, before convergence is produced.



From the Market to the Market

Innovation starts from a market opportunity and must produce a product or service to the market. Thus, the Market is the start and end point of the innovation process.

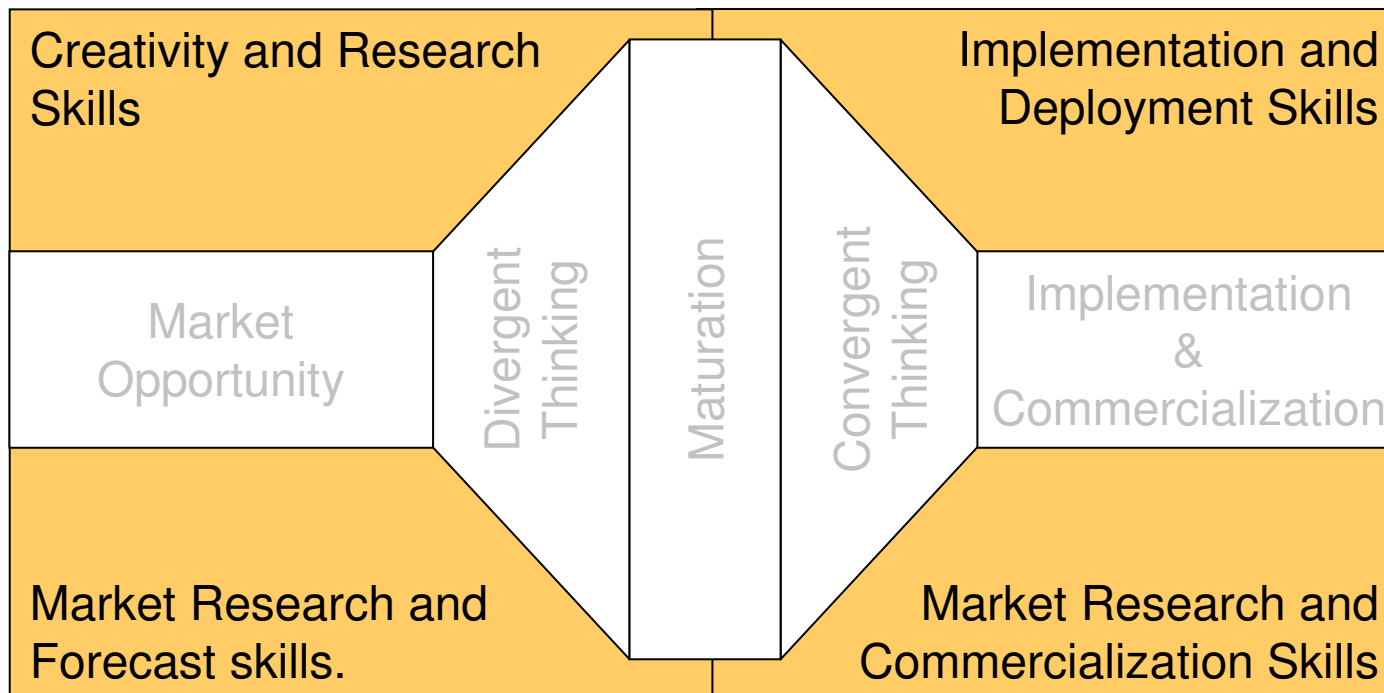
Innovation management requires finding out market opportunities, from known or yet to be uncovered needs and demands. It is also about producing the commercialization strategies to take the innovation to the market.



Skills

Innovation requires a constant adequate supply of skills. Human capital is the primary source of necessary skills in all phases of the innovation process.

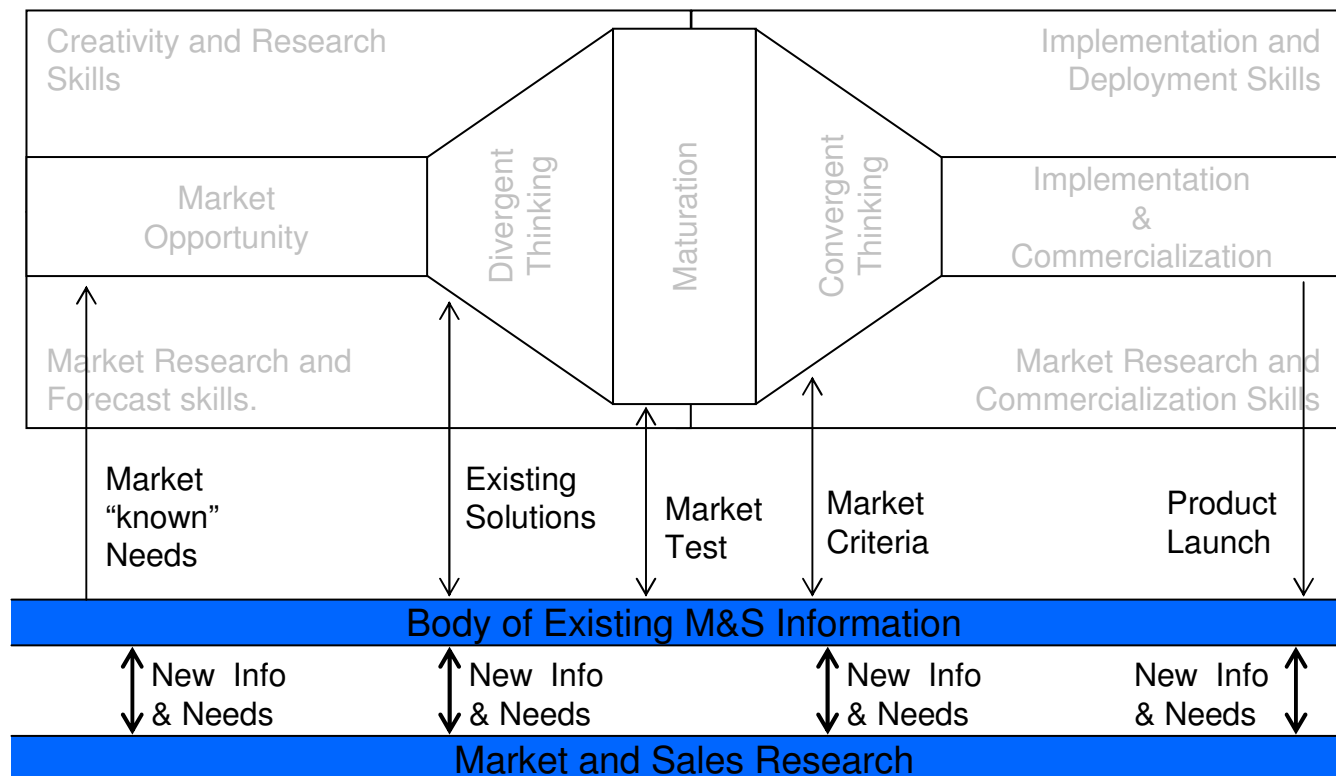
Innovation management must guarantee this supply and training programs are necessary to make them adequate to the specific needs of the enterprise.



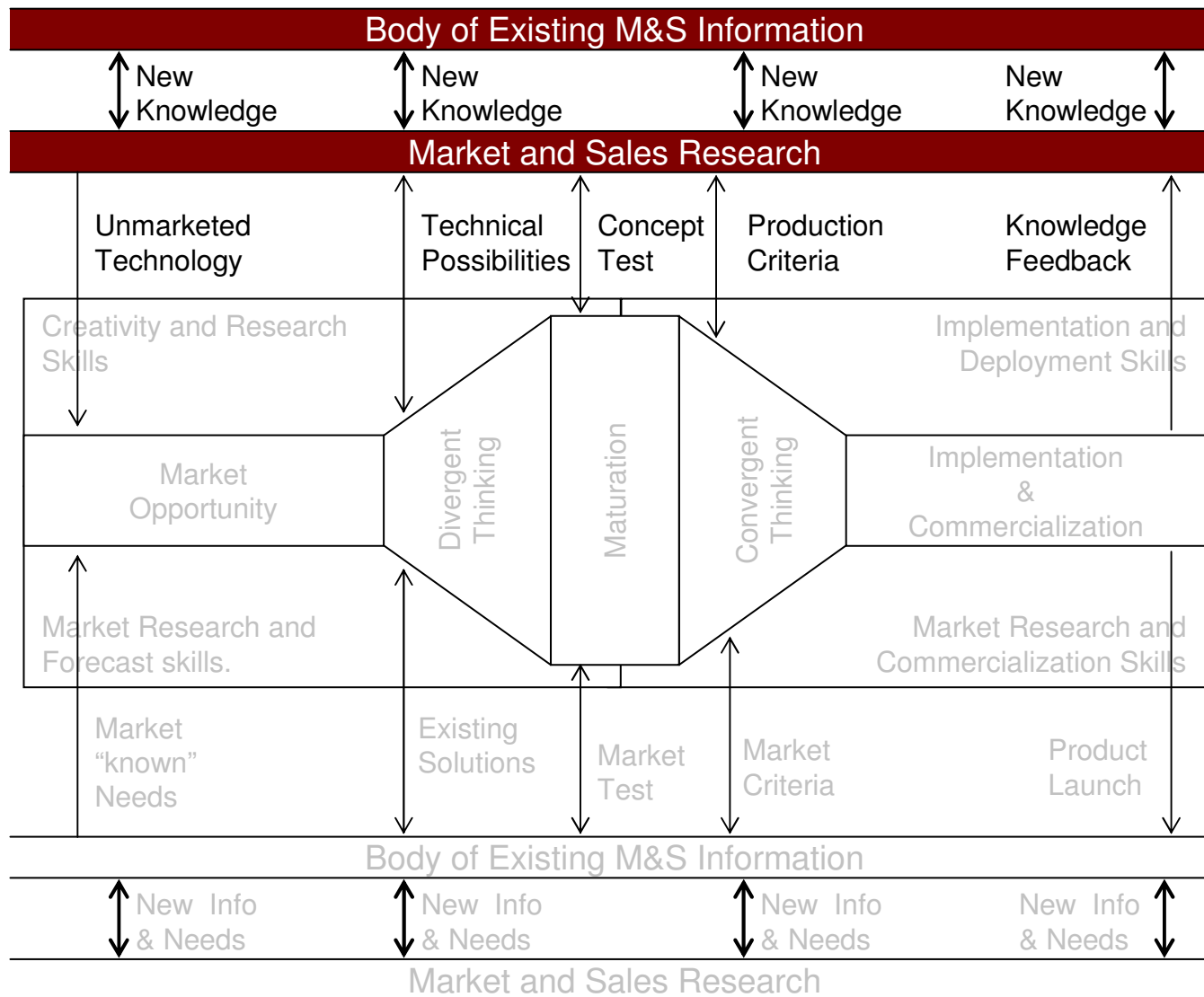
Linking with the Market

The body of existing market information is, often, the initial source of information. This “secondary source” information can have public access or must be acquired from market and research organizations.

Information from primary sources, the market players, must be acquired through market researches and surveys, and usually requires qualitative and quantitative analysis.



Linking with Science and Technology



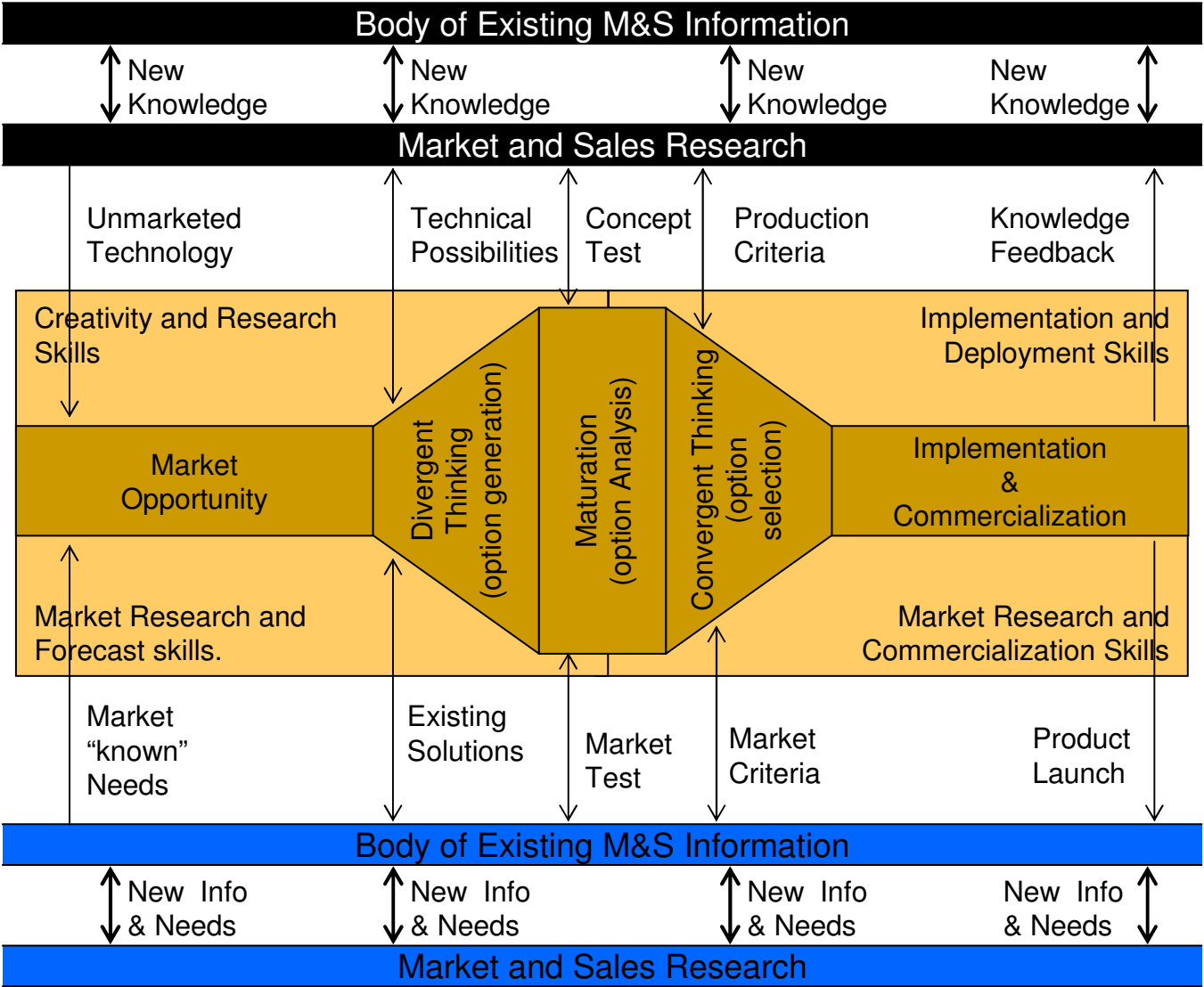
Linking with Science and Technology

The link of the innovation process and Science and Technology development often starts first from known science and technology. Only when those sources of knowledge prove inadequate (or inexistent) does a need arise for research.

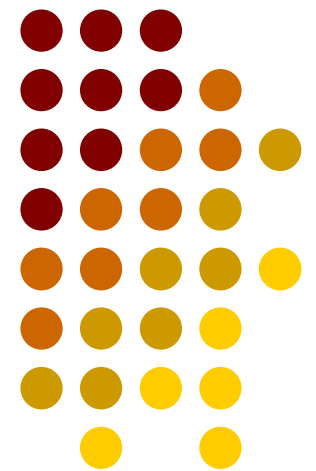
New, unmarketd technology, can be used from the beginning of the innovation process, provided it matches an actual market need or opportunity.

Innovation management comprises the management of the links between the innovation and implementation process, with the search, research, and development of knowledge about the technical aspects of the product, service, or production process.

A Double-Chain Linked Model



Alguns “drivers” de Mercado



***cinco gerações
da
informática***

(by Silvio Meira)

Primeira

***atrás do
balcão***

segunda

no balcão

terceira

depois do balcão

quarta

em você

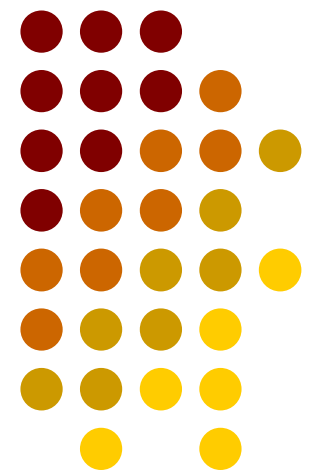
quinta ...

***em tudo,
em todos,
em todo lugar.***

The ideal wireless application should

- **Be entertaining and easy to use**
- **Accommodate the device**
- **Support spontaneity**
- **Be easy to obtain**

Processo e Template



Project Charter

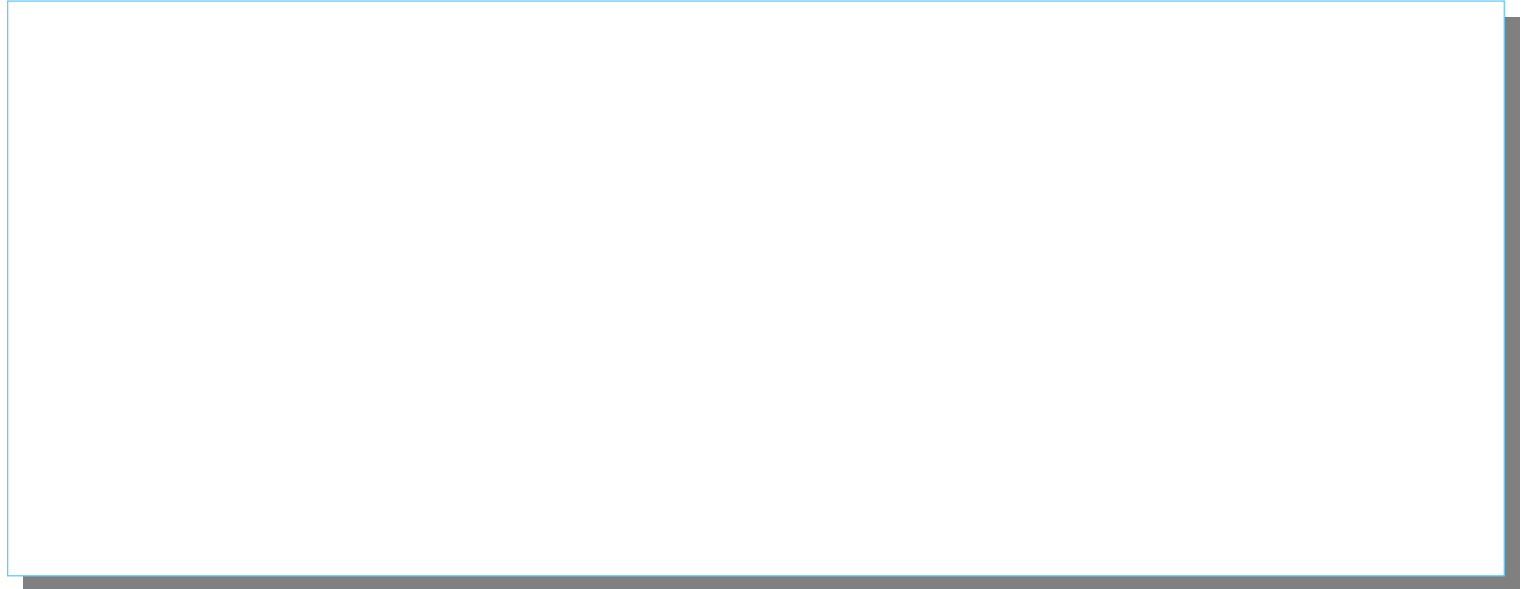
Nome do Produto

**Descrição do
Produto**

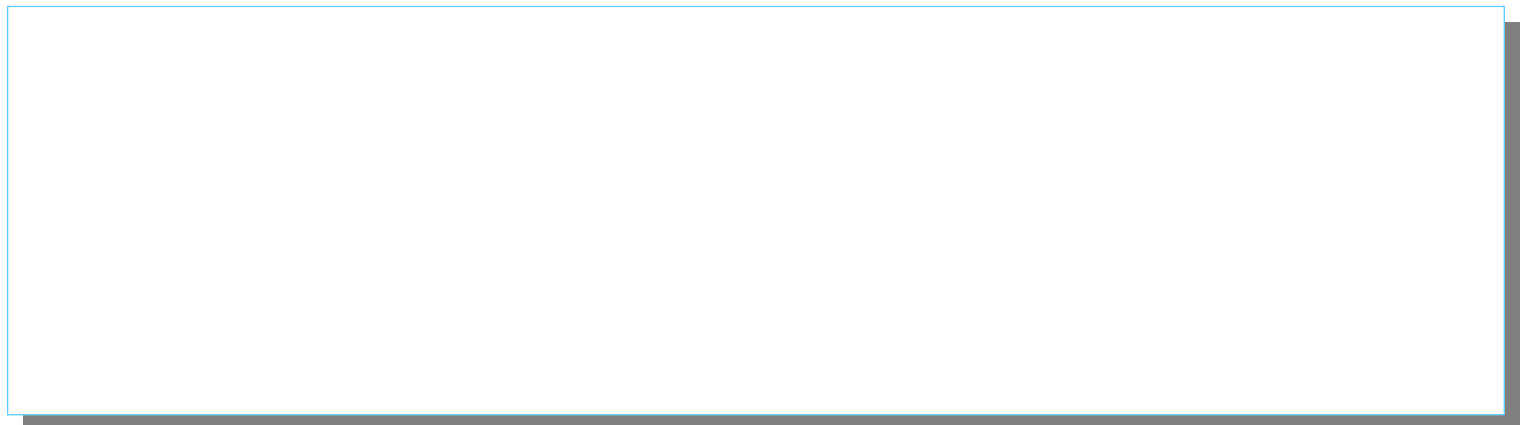
Objetivos

Objetivos

Objetivos

A large, empty rectangular box with a thin blue border and a thick grey drop shadow, intended for listing the objectives of the project.

Resultados

A large, empty rectangular box with a thin blue border and a thick grey drop shadow, intended for listing the expected results of the project.

Descrição do produto

Características Básicas

Usabilidade

Técnicas

Dinâmica do Produto

- Atores
- Cenários de uso
- Esquemas e diagramas de fluxo de informação entre atores

Arquitetura da Solução

- Componentes
- Ligações
- Fluxos

Premissas e Restrições

Premissas

Restrições

Protótipo

