FIAT – Open Innovation in a Downturn (1993-2003)

A Behind the Scenes View Strategy & Operations

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Organization of this presentation

- Why this case?
- Methodology: illustrative case study
- Research question: how do strategy and operation co-evolve during the journey from Closed to Open innovation?
- Situating the case:
 Open Innovation in a Downturn
- The Open Innovation model applied
 - A different look at appropriability of innovation
 - R&D project management
 - Open innovation in a downturn

Three persons behind this story



"the international company Fiat is the only route to survival for Chrysler." *March 30th 2009*

"Fiat has demonstrated that it can build the clean, fuel efficient cars that are the future of the industry, and as part of this agreement, Fiat has already agreed to transfer billions of dollars in cutting-edge technologies to Chrysler to help them do the same. Fiat is also committed to working with Chrysler to build new fuelefficient cars and engines right here in America."

April 30th 2009

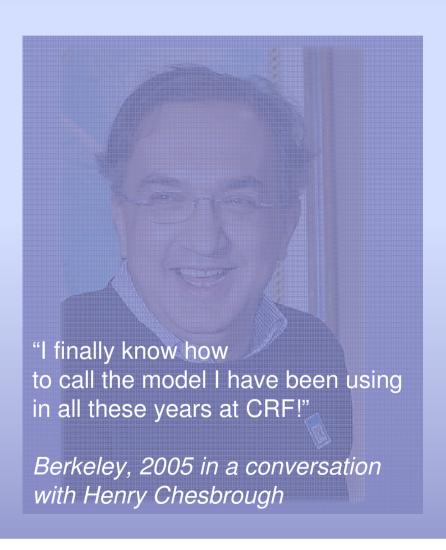
Three persons behind this story

"Only six automakers will see the end of the worldwide financial downturn. The only way for companies to survive is if they make more than 5.5 million cars per year".

December 2008 (Fiat is approx 2 million cars..)

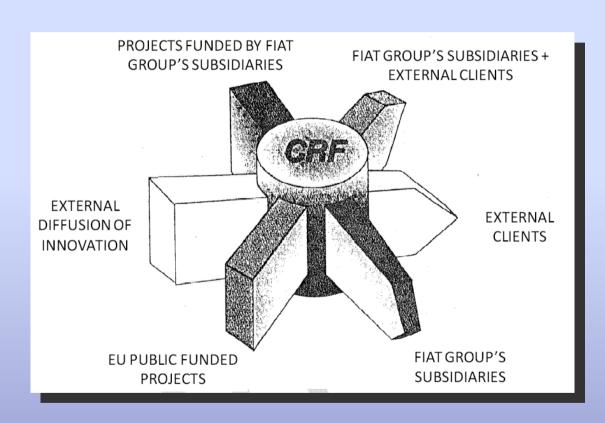


Three persons behind this story





Methodology based on great access to primary sources (1993-2003)

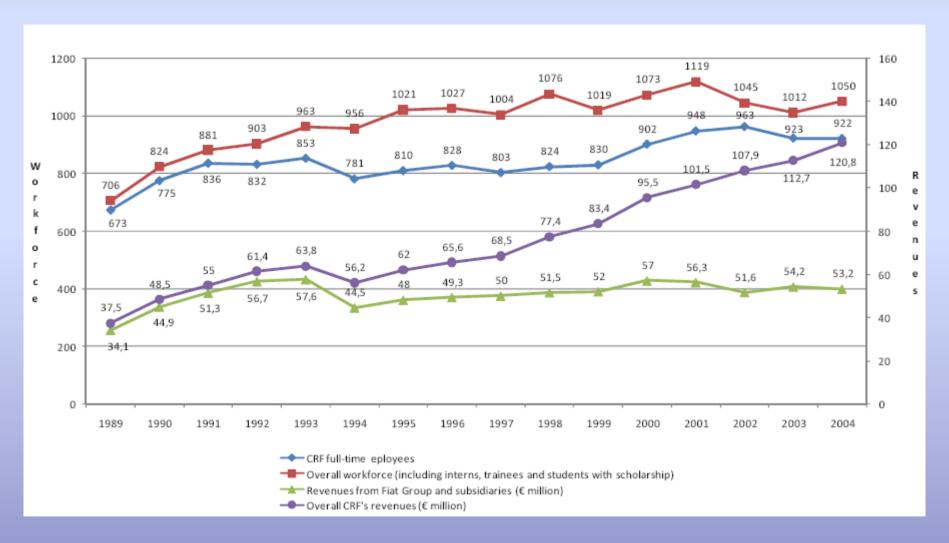


1989-1994: Preparing for the perfect storm.

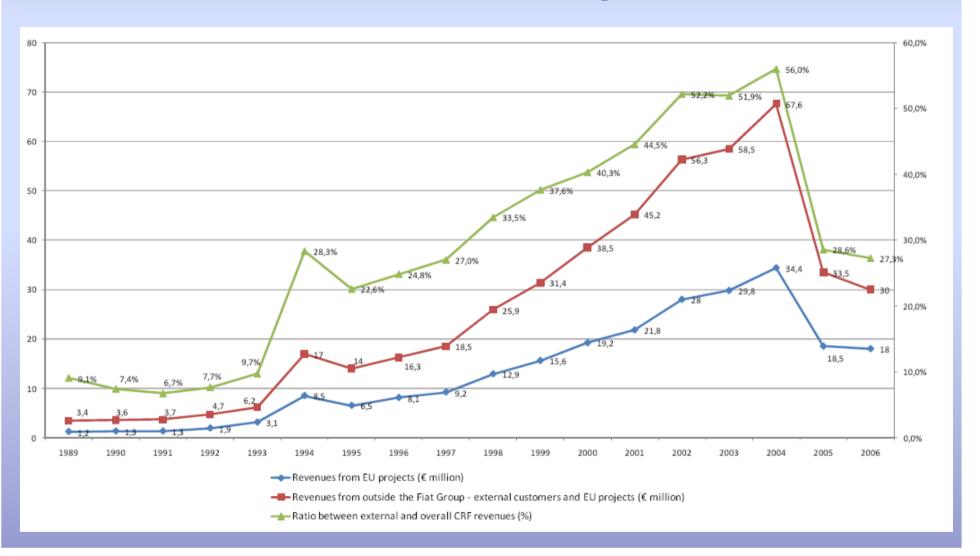
- 1994: Corporate R&D down 70%
- hunting for external clients
- pricing innovation

Source: CRF Internal presentation, 1993

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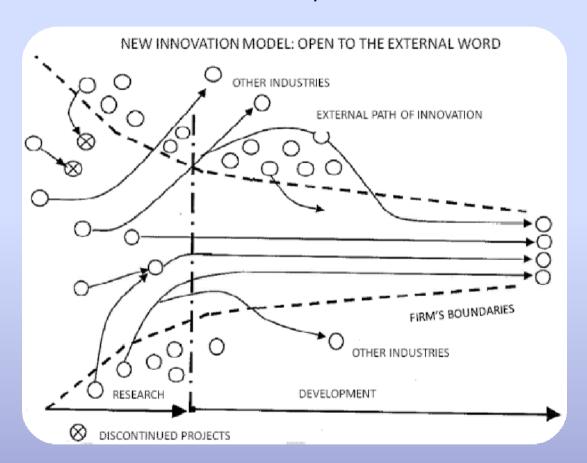
CRF's revenues from outside the Fiat Group



Does it look familiar?

Source: CRF Internal presentation,2003

- Defensive goal: find a way to maintain FIAT's technology base, in a time of shrinking budgets
- Ideas that we can trace back to Open Innovation central to this strategy
- From corporate strategy to operations.. Let's see how.

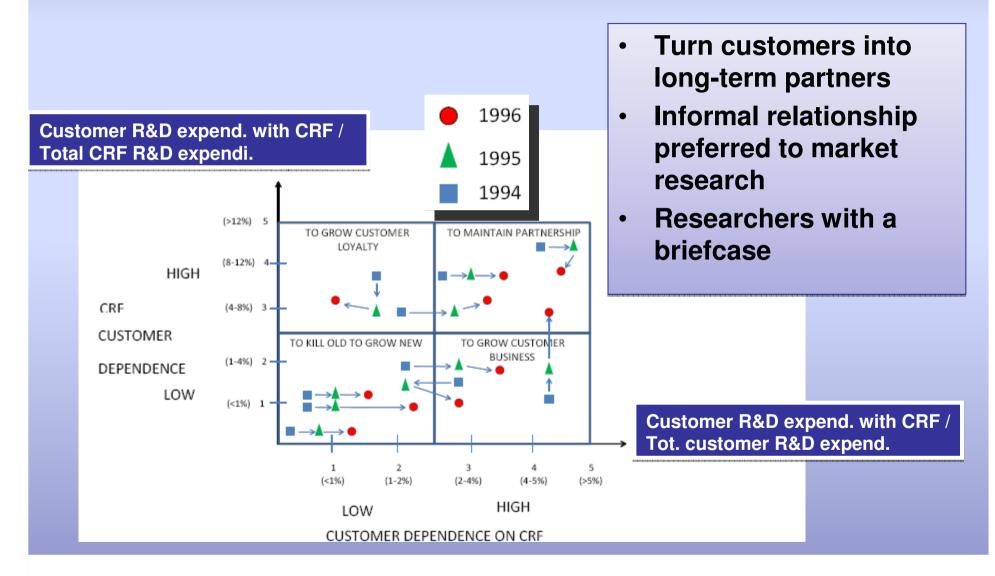


A new level of Appropriability For transferring competitiveness

Strategy:

- CRF new mission "instead of simply selling research, CRF is dedicated to providing competitiveness to its customers as a matter of principle"
- Learning about Marketing of Technology
 - Select the "right" projects to transfer
 - Select the "right" clients.. To turn them into long term partners

Selecting the "right" customer to work with



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Operations:

- A matrix structure and Research Promotion Function
- HR central to manage competences and high turnover
- R&D Project portfolio management: cool&risky ideas + plug&play
- The concept of "micro-clients"
- Intellectual property management (the Bosch case)

Selecting the "right" technology to be transferred is easier said than done

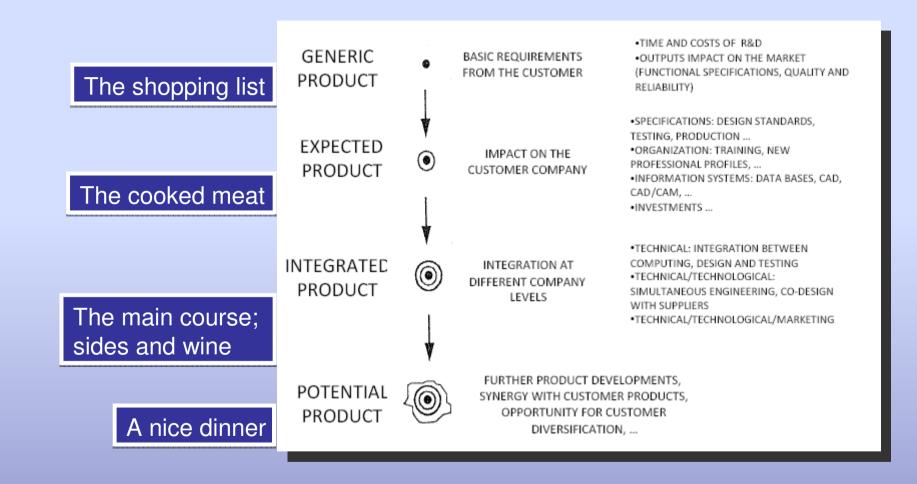
- **Strategy**: CRF interpretation of Hamel and Prahalad (1994) –distinctive, standard, actual.
- Execution: The case of Bosch:
 "Fiat lost out on billions in potential revenue by selling the technology"

A different perspective on R&D projects

Strategy:

- Clients might not know what they want/ how to price it
- Marketing of technology related to competitiveness:
 C.C.P. (Competitiveness for Customers at Competitive Prices)

Levitt's 4 Levels: imagine having friends over for dinner



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Strategy:

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Operations:

- Bottom up planning and evaluation. Microfoundation of project management. The Project/output sheets
- A new type of lab employee: Researchers, Project managers, Marketers

Open Innovation in a Downturn

Strategy:

- A clear/extreme mandate
- It takes time to implement
- Entrepreneurial spirit

Open Innovation in a Downturn

Strategy:

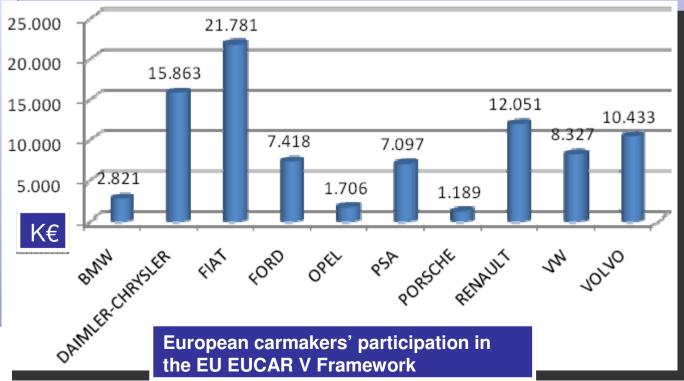
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Operations:

- Leadership and commitment
- Creative resource management (EU, clients)
- Pressures on the organization and stress levels
- Central role of planning: know what you transfer

The role of EU Projects

- From €2 million in 1992 to €20 million in 2000
- Organizational and strategic advantages:
 - Training
 - Free benchmark exercises
 - Network of relationships



Concluding Remarks: Relevance for Operations

- The role of the Open Innovation Champion:
 - Senior executive leadership critical to open up the innovation process
 - What happens next?
- Business model alignment
 - Transferring competitiveness to external (and internal) customers
 - Can we transfer competitiveness to competitors?
 - The process starts (and sometimes ends..) with individual researchers
- The relevance of organization
 - A complex transition: (HRM, IP, project management...)

Concluding Remarks: Relevance for Strategic Planning

- Open Innovation as a bifocal strategy during tough times
 - Ol as a response to shortermism in difficult times?
 - OI to both strengthen operational efficiency AND enhance R&D effectiveness?
- Tough times require tough leadership and anticipation
 - External circumstances are triggers of change
 - but change that has been anticipated and with someone to direct change
 - The wake up call can arrive too late
 - What is the trigger of OI? goldmine? Fire? Both?
- Micro-tuning and adaptation for macro-change
 - Planning and implementing OI starts from people and projects...

Thank You for Your Attention

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BACK – UP Slides

1. Obsessed with transferring competitiveness

- CRF new mission: "instead of simply selling research, CRF is dedicated to providing competitiveness to its customers as a matter of principle"
- C.C.C.P. (Competitiveness for Customers at Competitive Prices)
- The concept of "micro-clients"

Selecting the "right" technology to be transferred is easier said than done

- **Strategy**: CRF interpretation of Hamel and Prahalad (1994) –distinctive, standard, actual.
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3. Transferring competitiveness starts with careful planning

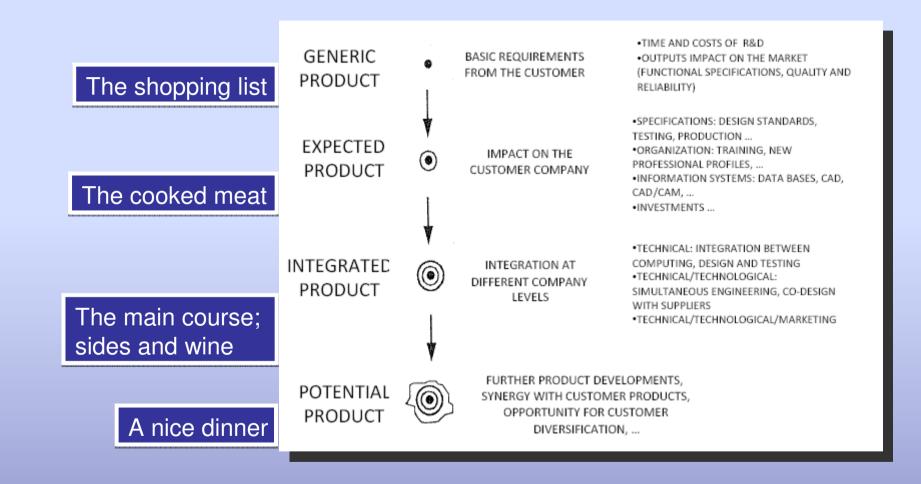
Problem: Customers

- do not always know what they really want and
- they are more likely to pay for technology with a visible impact

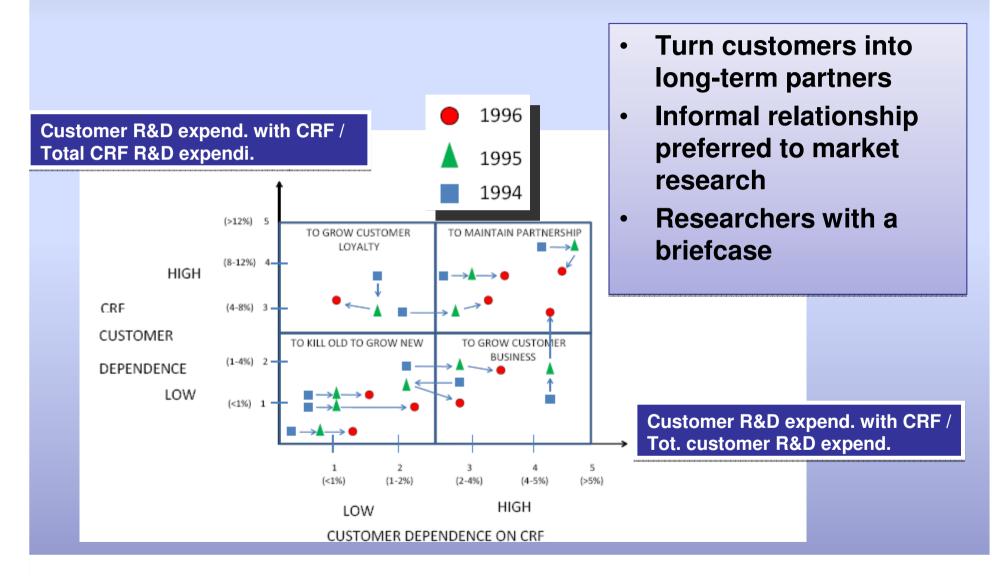
Solution:

- The output sheet (see appendix of the paper)
- Levitt (1983)'s culinary interpretation

Levitt's 4 Levels: imagine having friends over for dinner

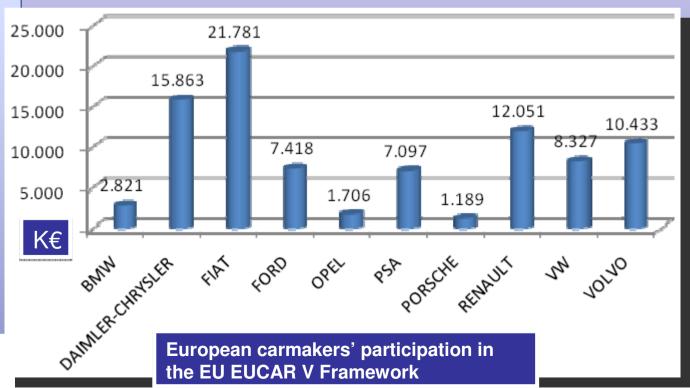


4. Selecting the "right" customer to work with



5. The role of EU Projects

- From €2 million in 1992 to €20 million in 2000
- Organizational and strategic advantages:
 - Training
 - Free benchmark exercises
 - Network of relationships



6. Organizing for Open Innovation

Structure:

- an horizontal dimension into the matrix structure: the critical role of the External Business Units
- A new Research Promotion function

Planning

- The central role of planning: know what you transfer!
- Strategic planning starts from individual projects
- Manage "by the numbers": indicators, objectives, performance...
- Control over IP next to the lab

People

 A new role to HRM: creating an O.I. researcher and dealing with high turnover

Concluding Remarks: Relevance for research in Org Studies

The role of the Open Innovation Champion:

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Business model alignment

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The relevance of organization

A complex transition: (HRM, IP, project management...)

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