





# Industrial Trade, the basic - Specificities

# > 3 – Very specific good

- Technical features, technological potential, economic criteria matter and are key elements of the negotiation "The idea is to pinpoint operational performance of the aircraft, its fuel consumption and performance over time path"
- As a result, the decision process is longer and transactions more costly.

# Industrial Trade, the basic - Specificities

#### > 4 – Imperfect market structure

- Industrial trade takes place in a particular context of an imperfect market structure with a small number of aircraft manufacturers and a very high number of airliners companies with various demands
- The market is segmented, with some companies focusing on price (Ryanair), others on financial terms (leasing)
- Consequently, the strategic dimension in the trade relationship is pregnant, the setting up of the contract (600 pages of contract) is a evidence of the complexity of the trade process.



# Industrial Trade, the basic - Specificities

# > 5 – Disruptive innovation

- Disruptive innovations deeply shift the supply chain
   Competitive advantages resulting from innovations in the sector can shift market conditions then impacting the position of both airliners and aircraft manufacturers
- ➢ One should distinguish the orders aimed at completing a fleet with well known and mastered technology, and the orders associated with new technological devices which require to analyze "... the economy associated with the new technology".





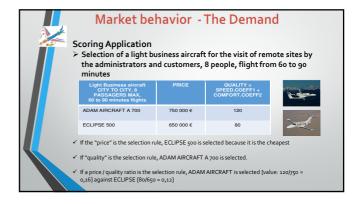


## Market behavior - The Demand

- Behavior binding by a specific demand
  - The industrial demand lies in a sector where the end point is the consumer market (for a private good) or the public market (for a public good)
  - If for consumer, demand of product lies to the usefulness of the product (a highly subjective notion), industrial demand lies to a need for a productive resources such as labor, capital, raw materials, intermediate goods or services in order to realize an output
  - All request is specific and very informed; Technical press and documentation are scrutinized by purchasers (engineers and technicians)
  - industrial demand is shaped by professionals through a selection process on every supplier with some assessment process of the seller and deep analysis of the value of the product

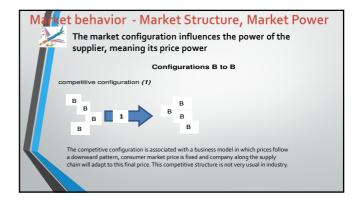
# Market behavior - The Demand

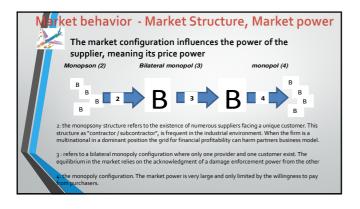
- A decision process rational rather than emotional Through several steps
   Step 1 – Which one to buy?
- Suppose that in a market several goods meet the need and are differentiable by their characteristics, some are more efficient, others are easier to use.
- > The decision-making process will be as follows: the company decides on a minimum level for every property that are looked for. Every property is then assessed by a score method, so that the choice process is based on a scoring method with minimum standards.

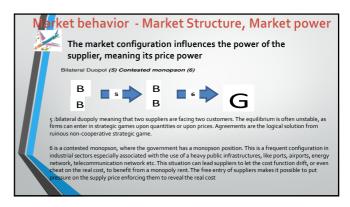




(expressed in days) when the company has sold enough to be profitable. Any additional quantity sold is then profitable.





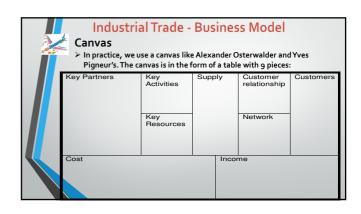


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# Industrial Trade - Business Model

### Notion

>The business model of a company is a synthetic representation, a sketchy way to track the origin of the added value, the role of every stakeholders. It allows to see how the company makes money and the role of every partner along the industrial chain to secure a sustainable development.





# **Business Model Exemples**

- Ford (1908) and traditional car manufacturing Under Henry Ford and its famous Ford T from 1908, the business model highlights the following pillars: ➤ a simple car supply (model without any option and black), innovative (no disengagement, elevated car body, removable engine) and robust (customers who bring the notoriety are peasants). The activity is induction and comparcial. The activity of for £ Sec when it was
- The activity is industrial and commercial. The car was sold for \$ 825 when it was
- The activity is industrial and commercial. The car was sold for \$ 825 when it was created in 1908, lower than other similar models, with a strong popularity and a strong American identity.
   As network, Ford uses massive advertising and creates an extensive distribution network, which largely contributes to Ford's market success.
   The key resources lies to the way labor is organized, the reduction of costs being a main target: specialization by performing basic tasks, standardization of tools and parts, optimal location selection to minimize transport costs.
   The model generates a huge revenue, not only by the volume of sales (28 million Ford T will be sold) but also by a cost killing behavior in production and marketing.
   Looking at customer relations, Ford is at the edge, it is the first vehicle where everything can be repaired unlike any other models.



# **Business Model Exemples**

- Renault (2015) and electric car
- Renault (2025) and electric car Car is no longer the first center of interest (ranking 17th in Japanese youth interest). For Generation Y, what matters is the availability of the car (through rental or sharing). > Until now, industrial activity was led by "Kaisen" methods, a process designed to promote continuous incremental innovations, parsimonious. The Renault business model go towards breakthrough innovations, more radical like supplying its new electric car. > This disruptive model requires a significant investment with very hiph fixed costs, particularly in research and development, while revenue is more hazardous and very dependent on easier of event first month of the transmitted by the
- particularly in research and development, while revenue is more hazardous and very dependent on government grants (direct grants to consumer, indirect grants with the development of electricity powered infrastructure). The key resources are dependent on partnerships: the Nissan-Renault Alliance has invested 4 billion euros and 2,000 people (1,000 at Renault, 1,000 at Nissan) on the electric car. The networks, the business has to adapt to the new modern kinds of communication, in particular network marketing and social networks: 15% of Renault's communication expenses are allocated to the Web. Regarding the key partners, and the customer relationship, the energy powered issue is decisive. Renault is working with the company "Better Place" that manage the service for the batter viceharce. Current technology, car't nower a battery in five minutes the time the batter viceharce. ۶
- the battery recharge. Current technology can't power a battery in five minutes, the time need for refueling in a gas station. Better Place then devised an automatic battery exchange service that can be performed in a minutes.

	Business Model Exemples
Ī	<ul> <li>Navy sector DCNS</li> <li>One of the only industrial companies in the world to offer a complete range of navy vessels, from the patroller to the aircraft carrier, including submarines and a complete range of services - training and advice, operational maintenance (MCO), integrated logistical support, infrastructure.</li> <li>&gt; Regarding its activity, DCNS can supply anything relies with the ship and its combat system throughout its all life cycle from design engineering to maintenance in operational condition.</li> <li>&gt; Customers are the French Navy, which provides 50% of the sector's income (e § billion), but also international customers. Any markets in the world is reachable thanks to an exceptional French maritime space.</li> <li>&gt; Given the design and maintenance of the systems, long-term customer relations are at the heart of the model to provide continuous solutions to the needs of any national navy related with any kind of threats.</li> <li>&gt; Its key resources are based on the know-how of its employees and on the quality of the industrial platforms. The model is based on the technological superiority of the products, meaning that heavy investment in research and development should be involved.</li> <li>&gt; Networks and key partners provide by the General Direction for weapons and the French Navy. Key partners provide infrastructures and protection to enable the company to develop in efficiency and safety. However, the model is risky, as relying on State orders. The strategy of diversification in renewable marine energies, hydro, floating wind etc. allows DCNS for consolidate its naval model.</li> </ul>