



## Agenda

- Opportunity, definition and types
- o Opportunity identification process
- o Role of Research and Development

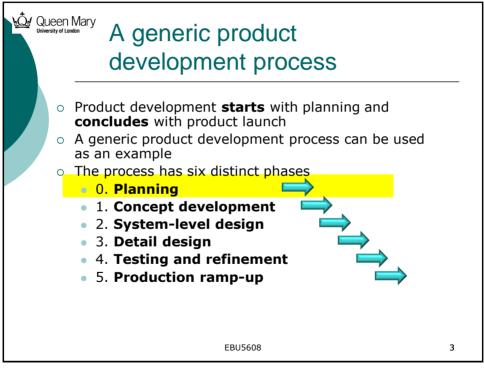


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### Today

- Phase 0 The 5-steps of Product Planning Process
  - Step 1 Identify Opportunities
  - Step 2 Evaluate and prioritise projects
  - Step 3 Allocate resources and plan timing
  - Step 4 Complete pre-project planning
  - Step 5 Reflect on the results and the process



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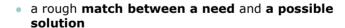
### What is an opportunity?

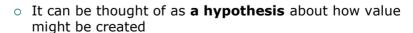
In the context of product development, an opportunity is

- o an **idea** for a new product
- o It is a product description in an embryonic form



- a newly sensed need,
- a newly discovered technology,









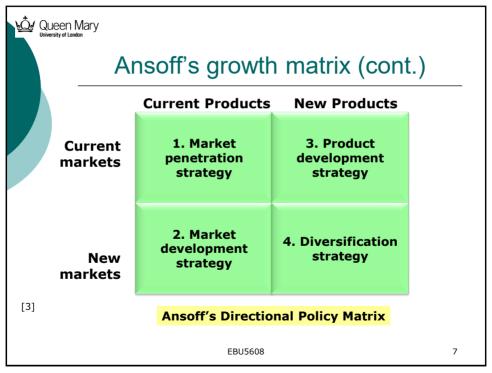
## Business growth – Ansoff's growth matrix

- Ansoff's Growth Matrix (see next slide):
  - Ansoff's directional policy matrix is a tool that can be used by organisations to identify the variety of growth options available to them.
  - This is also known as the 'Product-Market' growth matrix because it combines two of the key variables that enable a business to grow
    - An increase in market opportunities
    - An increase in **product** opportunities

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# Ansoff's growth matrix - market penetration



- Covers current markets/current products
- Opportunities can exist within a business's existing markets through increasing the volume of sales of existing products
- Utilising the marketing mix to look for ways to increase market **penetration** is a common approach
  - e.g. a different way or time for customers to use your products
  - Gain greater market share
    - o i.e. gain competitors' customers



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## Ansoff's growth matrix - market development



- Covers current products/new markets
- Opportunities are said to exist for a business's products through making them available to **new market**s
  - e.g. using existing products in new geographical markets
  - e.g. selling your existing products to a new age group of customers
- Keeps the security of handling existing products



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# Ansoff's growth matrix - product development



- Covers **new** products/**current** markets
- Opportunities, offering new or improved products to existing markets
- Frequently, when a firm creates new products, it can gain **new customers** for these products
- New product development can be a crucial business development strategy for firms to stay competitive
- This is the focus of this module



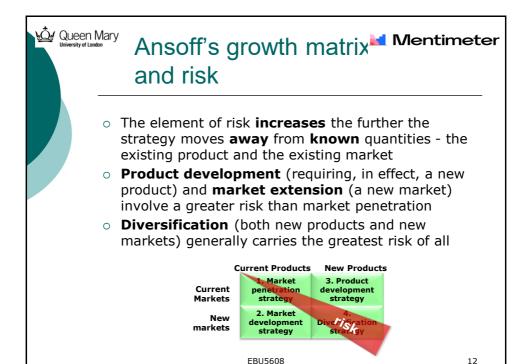


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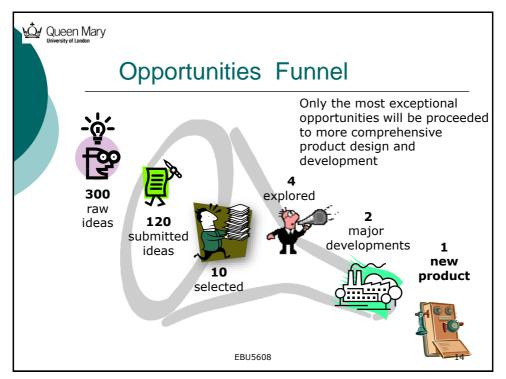






## Effective opportunity tournaments

- 1. Generate a large number of opportunities
- 2. Seek high quality of opportunities generated
- Create high variance in the quality of opportunities



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# Opportunity identification process

The Ulrich and Eppinger identify a **six-steps** process for Opportunity Identification as follows:

- Establish a charter
- Generate and sense many opportunities
- Screen opportunities
- Develop promising opportunities
- Select exceptional opportunities
- Reflect on the result and process.



#### 1. Establish a charter

A charter articulates the goals of the organisation (in relation to NPD) and establishes the boundary conditions for an innovation effort. Charters can be termed as mission statement for a new product.

In the FroliCat example, the charter was:

"Create a physical product in the Cat toy category that we can launch to the market within about an year through our existing retail sales channels"

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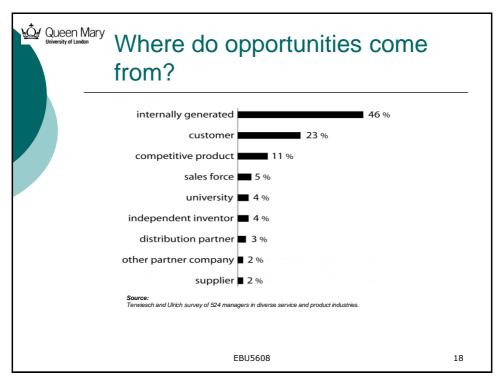
# 2. Generate & sense many opportunities

Focus has to be both on **internal** and **external sources** of raw opportunities. Some of these are generated:

- 1. Internally e.g. **R&D department**
- 2. By the current or potential **customer**
- 3. Through a competitive product
- 4. By sales forces
- 5. Through collaboration with **universities**
- 6. By independent **inventors**
- 7. By distribution partners
- 8. By other partner companies



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## Where do opportunities come from?

- There are two ways in which opportunities can be identified
  - Information can be gathered passively
  - Information can be gathered **proactively.** i.e.
    - Document frustrations and complaints that current customers experience with existing products
    - Interview lead users, with attention devoted to
      - innovations by these users and
      - modifications these users may have made to existing products





## Where do opportunities come from?

- Consider implications of **trends** in lifestyles, demographics and technology
  - for **existing** product categories and
  - for opportunities for **new** product categories
- Systematically gather suggestions from current customers
  - perhaps through the sales force or customer service system
- Carefully study competitors' products on an ongoing basis

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## Where do opportunities come from?

- Track the status of emerging technologies to facilitate transfer of the appropriate technologies from basic research and technology development into product development
- The **opportunity funnel** should be continually collecting ideas
- Therefore, new product ideas may arise at any time









#### Role of R&D

- Definition:
  - "to **develop** new knowledge and **apply** scientific or engineering knowledge to connect the knowledge in one field to that in others" (Roussel et al. (1991)) [1]
- Research or Development
  - Research discovery of new knowledge and scientific research
  - Development new product development for commercial gain
- The activities of R&D can be placed along a line of **product tangibility**



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#### The main activities of R&D

- The main activities of **industrial** R&D can include [3]:
  - Discovering and developing new technologies
  - Improving understanding of the technology in existing products
  - Improving and strengthening understanding of technologies used in manufacturing
  - Understanding research results from universities and other research institutions









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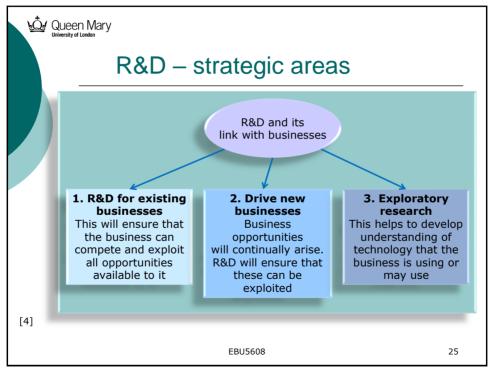
### R&D – strategic areas

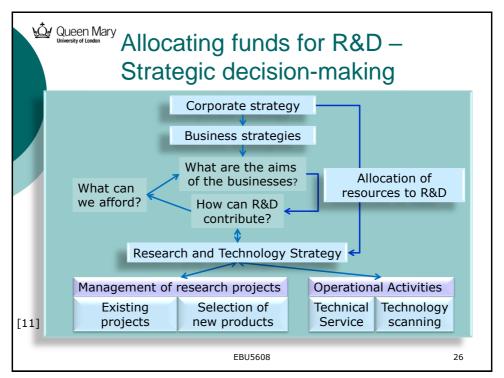
- The European Industrial Research Management
   Association recognises R&D as having three distinct strategic areas which all need investment:[8]
  - R&D for existing businesses
  - R&D for new businesses
  - R&D for **exploratory research**

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## Allocating funds for R&D – Strategic decision-making

- The first stage is to identify the Corporate Strategy
- Questions at the strategic level should be:
  - What might the company do?
  - What can the company do?
  - What **should** the company do?
- Using the answers to these questions to identify how this corporate strategy can be achieved leads to the development of **business strategies**
- The identification of the **business strategies** takes feeds from the R&D activities, operational activities etc. as well as the corporate strategies

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### 3. Screen opportunities

- o The purpose of screening is
  - to eliminate any opportunities that are unlikely to result in the creation of value,
  - to focus attention on the opportunities worthy of further investigation
  - not to pick the single best opportunity!
- There are two effective approaches to screen opportunities:
  - Web-based surveys
  - Workshops with multi-voting

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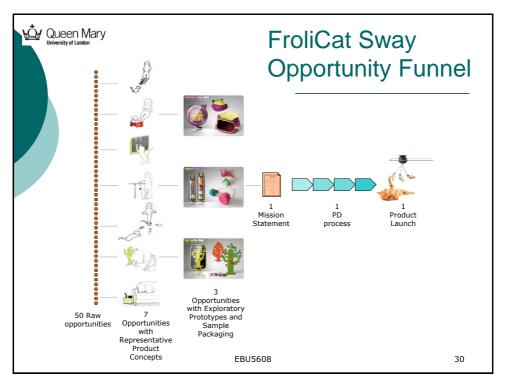
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## 4. Develop promising opportunities

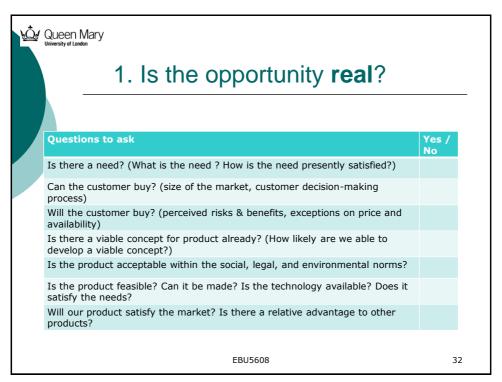
- At this step the team should invest modest levels
   of resources in developing a few of the screened
   opportunities. More details should be sought for
   these opportunities. These can include:
  - customer interviews,
  - testing of existing products,
  - concept generation,
  - quick prototypes,
  - estimates of market sizes and growth rates.
- The goal here is to resolve the greatest uncertainty surrounding each one at the lowest cost in **time** and **money**.

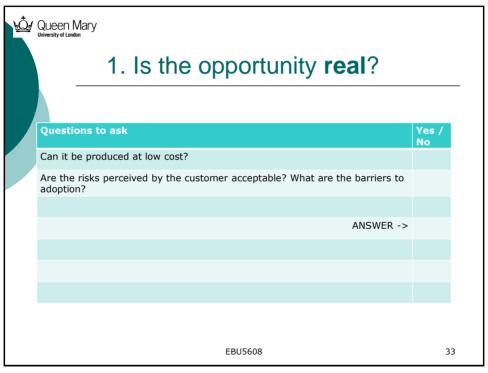


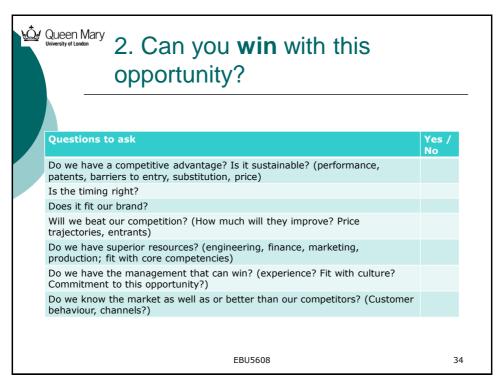


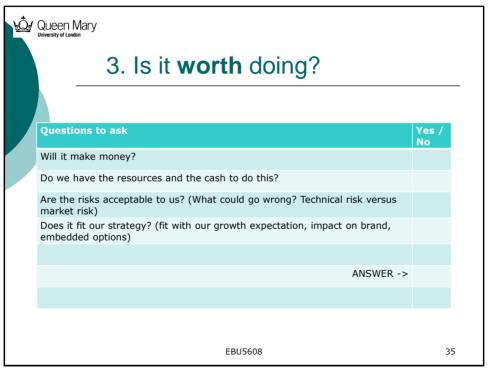
# 5: Select exceptional opportunities

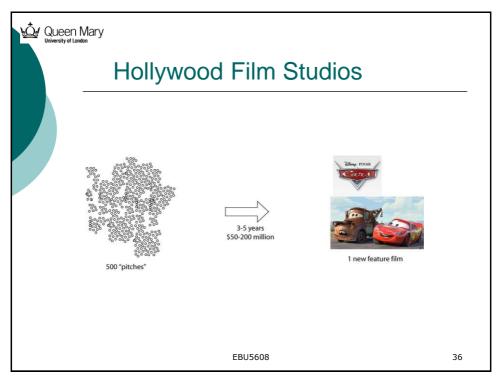
- The aim is to select a few that warrant a significant investment in product development.
- A specific approach used within established companies is called, 'Real-Win-Worth-it', developed originally by 3M. It summarises 3 questions that the organisation should attempt to answer when looking for the exceptional opportunities:
  - Is the opportunity real?
  - Can you win with this opportunity?
  - Is the opportunity worth it financially?















## 6. Reflect on the results and the process

- The refection can be done by organisations asking themselves the following questions:
  - How many of the opportunities identified came from internal sources versus external sources?
  - Did we consider dozens or hundreds of opportunities?
  - Was the innovation charter too narrowly focused?
  - Were our filtering criteria biased, or largely based on the best possible estimates of eventual product success?
  - Are the resulting opportunities exciting to the team?

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# Overview - Four ways to identify more business opportunities

- Listen to your potential clients and past leads
- Listen to your customers
- Look at your competitors
- Look at industry trends and insights





## **Summary**

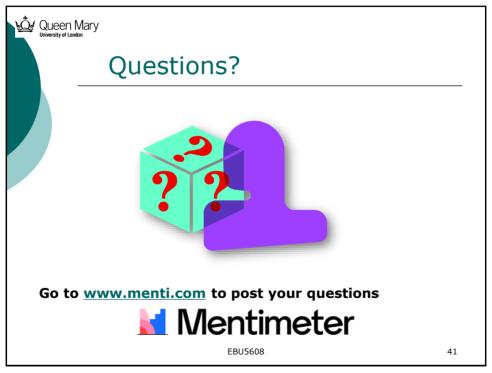
- o Opportunity, definition and types
- Opportunity identification process
- Various steps in opportunity identification
- Role of Research and Development



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#### In-class Exercise

- Work in groups of 4-5 students
- Identify a product you are well familiar with and discuss possible modifications that would enhance the user experience and could be a source of a business opportunity

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