



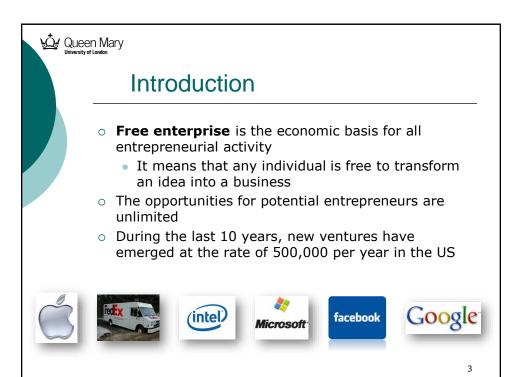
Agenda

- Product development in a small company
- What is a 'start-up'
- Entrepreneurship
- Advantages and Disadvantages of starting a new business
- Challenges of a small business
- Types of business
- Putting a high-tech start-up together
- Raising capital
- Business plan
- Causes of business failure



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Product development in a small company

- We have talked about Product Development in large companies
- The same processes need to be used in small companies such as start-ups
- o BUT:
 - There will be less people involved, and they may each have multiple roles
 - You may need to simplify some of the processes
- Do **not** make the mistake of thinking "we are too small to bother with a proper process"
- You need to understand the special challenges of starting a company to exploit your ideas

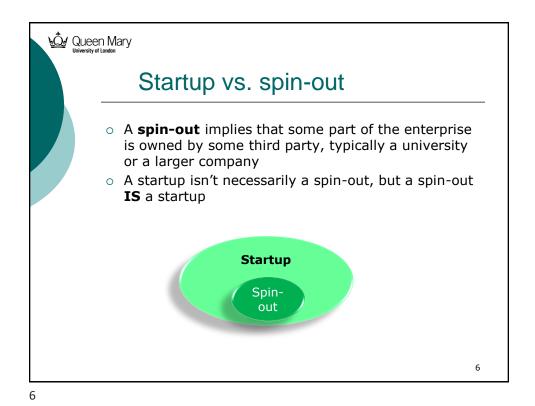
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What is a 'startup' [2]

- A startup company or start-up is a company with a limited operating history
- These companies, generally newly created, are in a phase of development and research for markets
- Typically it involves some novel technology, or use of technology, but crucially...
 - a coherent means for making money from the technology
- High-tech (e.g. telecom, software) is very different from bio-tech or medical





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The entrepreneur [3]

- o An **entrepreneur** is a person who
 - has possession over a new enterprise or venture and
 - assumes full accountability for the inherent risks and the outcome
- Entrepreneurship is the practice of starting new organisations or revitalizing mature organisations,
 - particularly new businesses generally in response to identified opportunities





Two types of entrepreneurship [1]

Social

- Aim is to create social change rather than make money
- Often involves business, public & charity organisations
- Examples
 - poverty relief
 - environment
 - arts & culture

Technological

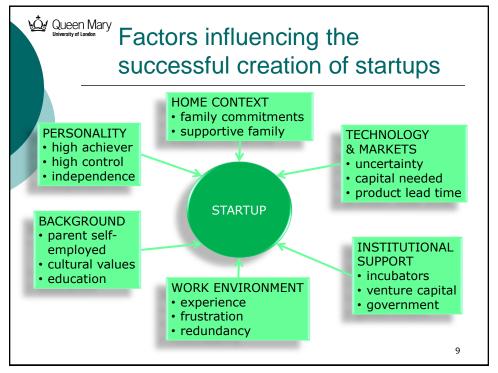
- Aim is to gain independence to exploit a technology
- Often results from being frustrated in a large company



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Supporting entrepreneurship [4]

- Many kinds of organizations now exist to support would-be entrepreneurs, including
 - specialized government agencies
 - e.g. in the UK, Business Link is a free business advice and support service, available online and through local advisers [5]
 - business incubators
 - science parks, and
 - Non-Government Organisations
 - e.g. Chambers of Commerce in the UK [6]



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Challenges of a small business

- o Hard work, making most decisions on your own
- Considerable risks involved
- Costly to raise finance
- No economies of scale





Advantages and Disadvantages of starting a new business

Advantages

- o Independence
- Financial opportunities
- Community service
- Job security
- Family employment
- Challenge



Disadvantages

- Sales fluctuations
- Competition
- o Increased responsibilities
- o Financial losses
- Employee relations
- Laws and regulations
- Risk of failure



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Some early decisions

You need to take some early decisions about your company:

- What type of business e.g. life style?
- What form of ownership e.g. sole trader?
- o Are you driven by the technology or the market?
- o Who are your customers?





Types of business

- Scalable, global technology player
- Biotech business with long-term R&D plans
- Manufacturing facility with medium growth plans
- Service provider
- Lifestyle business











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What form of ownership?

- sole trader

- Most basic form of organisation
- Not a legal form of organisation the individual and the organisation are indistinguishable (they are similar)
- The 'sole trader' is responsible financially and legally for any debts, outstanding unfulfilled contracts etc.
- Very easy to establish
- Sole trader can have employees (despite the name)
- Examples hairdressers, newsagents, window cleaners



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What form of ownership? - partnerships

- Two or more people combine resources and form a partnership
- Contract exists between the two (or more) parties; terms include:
 - The amount of capital subscribed by each partner
 - How **profits** will be determined and allocated between partners
 - Salary allocation for the partners
 - Procedure for **dissolving** the partnership
- Examples solicitors, accountants etc.





What form of ownership?

- Limited companies

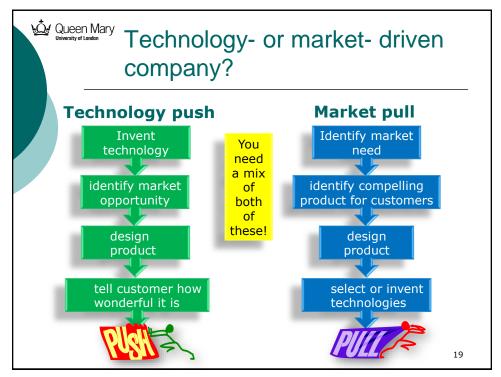
- Limited in this instance meaning that the owners no longer have unlimited liability for the debts of their companies
- In the US, these are known as incorporated companies
- All companies have shareholders who have invested in the company
- All companies have **directors** who are selected by the shareholders to run the company



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Who are your customers?

- o End-users, i.e. consumers
 - i.e. you are B2C (business to consumer)
- Business that has its own customers
 - i.e. you are B2B (business to business)
- You must know who your potential customers are





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How a hi-tech start-up comes together

The Ingredients:

- Technology
- Intellectual Property (Protection)
- The Vision (Where can the technology lead? Is there a market for it)
- o Personnel
 - Scientific leaders
 - Business managers
 - Fund Raisers
 - Scientists/Engineers
- Money











The stages for creating a hitech start-up

- Assess the opportunities generate, evaluate & refine the business concept
- Develop the business plan and decide on the structure of the venture
- 3. **Acquire** the necessary resources and funding
- 4. Grow and harvest the venture



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Raising capital

o Why?

- Growth
- Maintenance of operations
- Survival

o How?

- Re-mortgage or loan
- Venture Capitalists or Angels
- Grants
- Family and friends



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Fund-raising Stages

- Pre-investment
 - University fund, friends, bank loan
 - £5k-£50k
 - build demonstrator, build business plan
- Round A
 - Angels, or special startup funds
 - £100k-£500k
 - Establish board, partial executive team
 - 5 10 employees
 - Round B
 - Venture Capital
 - £1M-£5M
 - Complete board and exec team. Expand to 20+
- Exit





Queen Mary What are VCs (Venture Capitalists)?

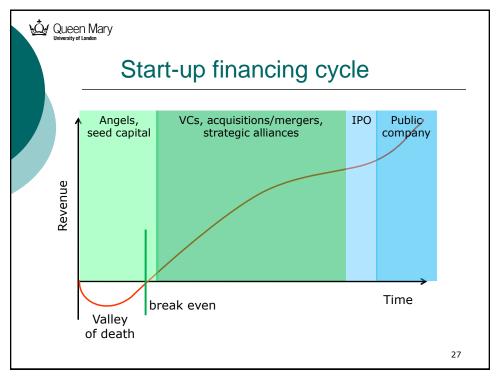
- A company that collects funds (e.g. from pension funds) and then invests those funds in startups
- Go for high-risk, high reward
- Need very large uplift in value, 10 times or more
- Take large stake in company equity
- Expect only 1 in 10 to succeed



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The fund-raising process

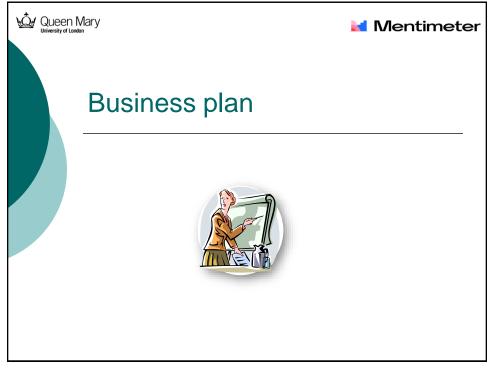
- Elevator pitch/executive summary
- Business plan, presentation, management team
- Business survey
- Due diligence
- Valuation, ownership, control, legal issues
- FUNDING



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Two Essential Functions

- 1. Guiding the company by charting its future course and defining its strategy for following it.
- 2. Attracting lenders and investors who will provide needed capital.

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What a Business Plan is

- ...the entrepreneur's **road map** for a successful enterprise
- Describes
 - The **market** you plan to enter
 - The unique and compelling features of your contribution to this market
 - Intellectual property
 - Business model and Financials
 - Team and Company development and strategy
 - Investment proposition
 - Exit strategy





Features vs. Benefits

 Feature – a descriptive fact about a product or service:

> "an ergonomically designed, more comfortable handle"

 Benefit – what a customer gains or a satisfaction received from the product or service feature:

'better fuel consumption by a new car engine which reduces overall costs and increases efficiencies'

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Why do you need a Business Plan?

A business plan...

- provides a **formal agreement** between the founders of a company about the direction to be taken
- o can reduce **self-delusion** amongst the founders
- o defines **responsibilities** & rewards
- helps to translate abstract goals into explicit operational needs

Without a business plan...

- nobody will invest in your company
- o you will wander aimlessly





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Business Model

- The Business Plan must describe your Business Model
- This shows how you will make money from your business, e.g.
 - Selling software
 - Selling services
 - Licensing software
 - Selling hardware
 - Selling/licensing Intellectual property
 - e.g. the ARM processor (CPU based)
 - Some mix of the above
- Will be supported by Revenue predictions





Key Elements of a Business Plan

- Title Page and Table of Contents
- Executive Summary
- Vision and Mission Statement
- Company History
- o Business and Industry Profile
- Business Strategy
- Description of Products/Services





Key Elements of a Business Plan

- Marketing Strategy
 - Document market claims
 - Show customer interest
- Competitor Analysis
- Description of Management Team
- Plan of Operation
- Projected Financial Statements
- Loan or Investment Proposal



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Exit strategy

- VC wants to know how it will get a return on investment (ROI)
 - Company sale (e.g. to Microsoft, Google, Philips, etc)
 - IPO (Initial Public Offering), i.e. making shares publicly available via a stock exchange (SSE – Shanghai Stock Exchange; AIM (London) – Alternative Investment Market, NASDAQ – New York, etc.)
- o In how many years?
- If you get this right, you are now getting 10% value of a company worth £50M or more!



Queen Mary Guidelines for Preparing a **Business Plan**

- o Remember: No one can create your plan for you.
- Potential lenders want to see financial projections, but they are more interested in the *strategies* for reaching those projections.
- Show how you plan to set your business apart from competitors; don't fall into the "me too" trap (copying other businesses - no advantage to this).
- Identify your target market and offer evidence that customers for your product or service exist.

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Tips on Preparing a Business Plan

- Make sure your plan has an attractive cover. (First impressions are crucial.)
- Rid your plan of all spelling and grammatical errors.
- Make your plan visually appealing.
- Include a table of contents to allow readers to navigate your plan easily.
- Make it interesting.



Tips on Preparing a Business Plan

- Your plan must prove that the business will make money (not necessarily immediately, but eventually).
- Use spreadsheets to generate financial forecasts.
- o Always include cash flow projections.
- Keep your plan "crisp" between 25 and 40 pages long.
- Tell the truth always.

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Causes of business failure

Business failure is caused by a number of reasons but the most common of these are detailed below:

- lack of skills
- sales problem
- financial control
- lack of funds
- high cost of finance
- insolvent customers
- overtrading development
- marketing issues
- red tape (bureaucracy)







Summary

- There are no guarantees for success.
- Creating a business plan will be valuable primarily because of the process itself.
- The business planning process may provide insight to increase the chances for success.
- The business plan: Entrepreneurs benefit; lenders and investors demand it!

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