

# Industrial Placement 2010

at

**Barclays Capital**

**BRIGITTA DEVENYI**



- **British investment bank** founded in 1997
- Part of Barclays PLC
- Over 25,000 employees in over 30 offices worldwide
- Provides strategic advisory, financing and risk management services to clients
- Who are the clients? → large companies, institutions, investors and governments
- BarCap believes in **meritocracy**: talent and innovation is rewarded, an individual can further develop their strengths

# Organisational Structure



- **Hybrid** organisational structure
- **Commodities** – raw or refined natural resources extracted from the Earth

## Global Markets

- **Commodities**
- Emerging Markets
- Equities
- Fixed Income
- Foreign Exchange
- Prime Services

## Investment Banking

- Advisory
- Capital Raising
- Corporate Lending

## Private Equity & Principal Investments

- Private Equity
- Infrastructure Finance
- Commodities Principal Investments

Distribution and Research

Infrastructure

US  
Power & Gas

European  
Power & Gas

Crude Oil &  
Refined  
Products

Metals

Other  
Speciality  
Markets

Cross-asset  
Hybrids

- **Euro Power & Gas Team** (1<sup>st</sup> part of placement)
  - Supports the Euro P&G desk
  - **Commodities Position System (CPS)** – shows positions for any chosen commodities and portfolios
  - **Commodonline** – web interface for CPS
- **Metals Team** (2<sup>nd</sup> part of placement)
  - Metals – **very specific** commodities business → **LME** (London Metals Exchange) – open outcry trading → very specific rules and regulations
  - **eMetals/Meteor** – applications used by the metals desk and metals operations people **globally**

- Set at the beginning of the placement
- **Appraisals**
  - **Mid-term appraisal:**
    - Discussion on the **progress of objectives**
    - Manager **grades** the intern
    - Intern completes **self-appraisal form**
  - **Final appraisal:**
    - Discussion on the **overall progress** and development since the mid-term appraisal
    - An **overall grade** is given by the manager
    - Fill in **self-appraisal form on overall performance**
    - **Offer for Graduate Programme** in case of successful completion of placement

- 2 different teams → 2 different line managers  
→ 2 different sets of objectives
- **Euro P&G (Andy Morton):**
  - Specification and implementation of the “**Liquidation**” component of CPS
  - Design and implementation of a **Log Analyser** application → **Agile** development
- **Metals (Gavin Harrison):**
  - Design and implementation of a **Position Reconciliation tool** → **Agile** development
  - Carry out **User Acceptance Testing (UAT)** for Meteor Phase 2

# What Did I Exactly Do? (Euro P&G)



- What is “**Liquidation**”?
- **Specification** of “Liquidation”:
  - Architectural diagram
  - Sequential diagram
  - Business rationale
- **Implementation** of “Liquidation”:
  - Server side – Data retrieval and handling
  - Client side – Commodonline web-based user interface
- **Technologies** used:
  - Server side: T-SQL, KDB, C# (.NET 2.0)
  - Client side: ASPX, C# (.NET 2.0)
- **Company practices**:
  - Different environments: DEV, UAT, PROD
  - Code-review

- What is **CPS Analyser**?
- **Documentation** for CPS Analyser:
  - Sequential diagram
  - Internal Wiki page
- **Implementation** of CPS Analyser:
  - Stand-alone GUI application
- **Technologies** used:
  - C# (.NET 3.5), DevExpress – WinForms controls
- **Special features** (examples):
  - C#: delegates, DataTable, XmlDocument, Regex
  - DevExpress: groupings, BackgroundWorker, GridView, MethodInvoker



# What Did I Exactly Do? (Metals)



- **Business analysis and testing**
- eMetals and **Meteor** – applications used by the metals desks and operations people
- **Position Reconciliation tool:**
  - GUI application to compare positions shown by 3 different systems (eMetals, Meteor and CPS)
  - Technologies used: C# (.NET3.5), DevExpress, Sybase
- **Meteor Phase2 User Acceptance Testing (UAT):**
  - Demonstrating to and testing with users
  - Gathering user feedback
- **Town Hall presentation** – audience of ~150

# How Was It Useful?

- I have **realised**
  - the importance of **teamwork**
- I have **gained**
  - **business & finance knowledge**
- I have **improved** my
  - **Research skills**
  - **Organisational & time management skills**
  - **Communication & networking skills**
  - **Technical skills**
  - **Ability to handle stressful situations**
  - **Flexibility and adaptivity**
  - **Problem solving skills**

- **Software Engineering:**
  - Concept and practice of **Agile development**
  - Sequential, architectural and conceptual **diagrams**
- **Object Oriented Programming:**
  - **Java** – concepts and practice
  - Multi-threading
  - Server and Client side development
- **Logic and discrete maths:**
  - **Problem solving**, reasoning
- **Databases:**
  - Concepts and practice (**SQL**)
- **Concurrency**

# Was It All Worth It?

- One of the best times in my life
- **Once in a lifetime** experience
- **Looks very good on a CV**
- Gives insight into the **real-world working environment**
- Hard work → **likely to get a job offer**
- You get paid – believe it or not, it's not like that everywhere in the world...
- It is **FUN!** Meeting many friendly people!
- You realise that **teamwork** makes a difference
- Disadvantage – short summer holiday 😞

**Thank You for Your Attention!**

**Please, do not hesitate to ask  
Questions!**



**BARCLAYS**  
**CAPITAL**