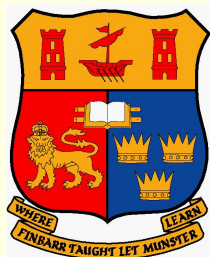


ToK-DEV No: 29896

“DEPMaB”

[Developing Expertise in Pharmaceutical
Materials and Biomaterials]



Humphrey Moynihan

Dept. Chemistry, **UCC**



Analytical & Biological Research Facility (ABC RF)

DEPMaB: Overview



- Funding for 3 x 2 yr PDRAs
- Funding for 3 UCC staff to visit:
- Weizmann Institute of Science (8 person-months)
- Utrecht U. Institute of Pharmaceutical Science (4 person-months)
- PIs from ABCRCF & Sch. of Pharmacy
- ~€0.5M

History & Current Status



- **May 2004:** 1st Submission (“DEPPPS”)
- **Oct 2004:** Outcome – category C (75.9%)
- **May 2005:** Re-submission (“DEPMaB”)
- **Aug 2005:** Outcome – category A (89.6%)
- **Sep 2005:** Began preparing Contract Preparation Forms (CPFs) & Annex 1
- **Oct 14, 2005:** Draft CPFs & Annex 1 submitted
- **Oct 18 to 27:** Contract negotiation
- **Oct 18:** Completed Contract Preparation Forms & Annex 1 submitted
- **Nov 30:** Contract signed



ABCRCF/Pharmacy interface

Proposal well-suited to ToK

PharmaChemical industry in UCC hinterland

Research quality & success of UCC

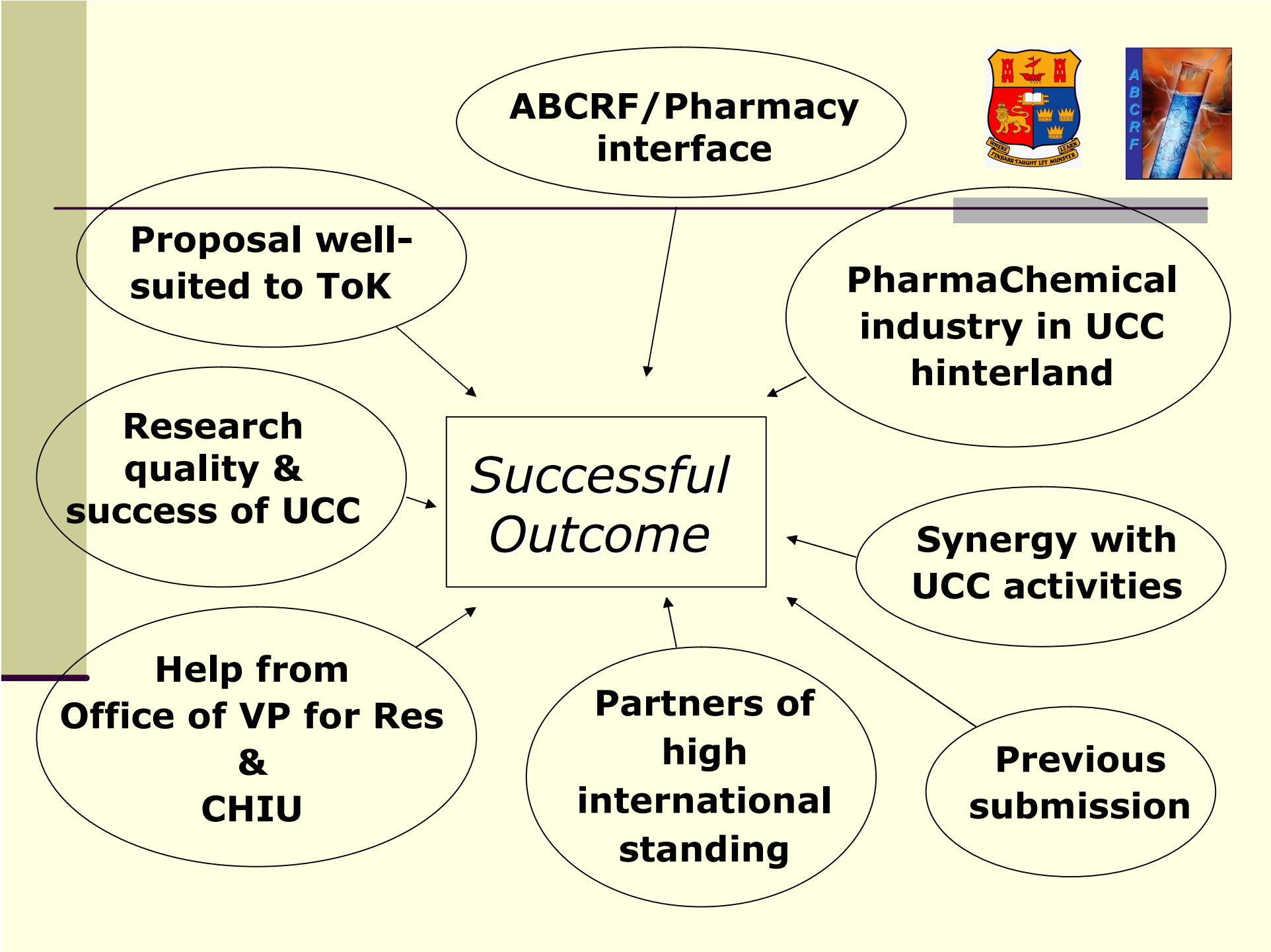
Successful Outcome

Synergy with UCC activities

Help from Office of VP for Res & CHIU

Partners of high international standing

Previous submission



Need for *Transfer of Knowledge*



- Existing UCC expertise in synthesis/manufacture of Active Pharmaceutical Ingredients (API)
- Require new expertise in pharmaceutical *finished product*
- Physical properties of pharmaceutical materials
- Pharmaceutical formulation
- Requires *Transfer of Knowledge*

ABCRF/Pharmacy



- ABCRF (est. 2002) PRTL I €7.728M
 - Molecular synthesis & analysis
- Sch. of Pharmacy(est. 2003)
 - Pharmaceutical formulation & physical properties
- Good links between ABCRF & SoP
- Research/teaching/shared building
- ABCRF/SoP have the capacity to *receive* the Transfer of Knowledge

PharmaChemical industry



- Largest API manufacturing cluster in Europe
- Huge economic importance to EU & Ireland
- UCC's well-established role
- Threats to industry
- Need for diversification (finished products)
- Need for new expertise – research & training
- In line with Irish & EU economic strategies
- Economic imperative for ToK

Synergistic activities



- New School of Pharmacy
- New building housing SoP and ABCRCF (€23M)
- New UG and PG degree courses
- UG: Chem. Pharm. Compounds; BPharm
- PG: MSc Pharm. Phys. Props.; QP course
- Research activity
- Evidence of commitment of UCC to developing expertise and capacity

Previous submission



■ Strengths

- Good interdisciplinarity
- Need of ToK demonstrated
- Appropriate hosts
- Scientific quality very high

■ Weaknesses

- More management details required
- Address European research excellence
- Address improvement of less favoured regions
- More on research (rather than manufacturing) benefits

Training partners



- Weizmann Institute of Science, Israel
- World-leaders in molecular material science
- Utrecht Institute of Pharmaceutical Science
- World-leaders in formulation of bio-molecules
- Both address key ToK needs
- Both of outstanding international reputation

Help in preparing submission



■ Office of VP for Res.

- Practical mobility issues
- EU/Third Countries dimension

■ CHIU/NCP

- Focus on priorities of ToK scheme
- *Demonstrate ability to receive ToK*
- *Demonstrate long-term benefit to UCC of ToK*
- Better presentation

UCC Research Infrastructure



- State-of-the art SoP/ABCRCF building
- Laboratories and office space for ToK fellows
- Necessary equipment
- Experience managing projects/research funding
 - Office of Research Grants & Contract
 - Human Resources
 - Accommodation Office
 - Buildings & Estates

Submission preparation



- Key documents:
 - Handbook
 - Guide for Proposers
- Part A
 - Administrative details
 - On-line (EPSS)
- Part B
 - Details of the proposal
 - Document with headings as given in the Guide
 - Submit on-line as pdf document