

ATWARM Kick-off Meeting

11th May 2010



2. Planning Overview
& Work Packages

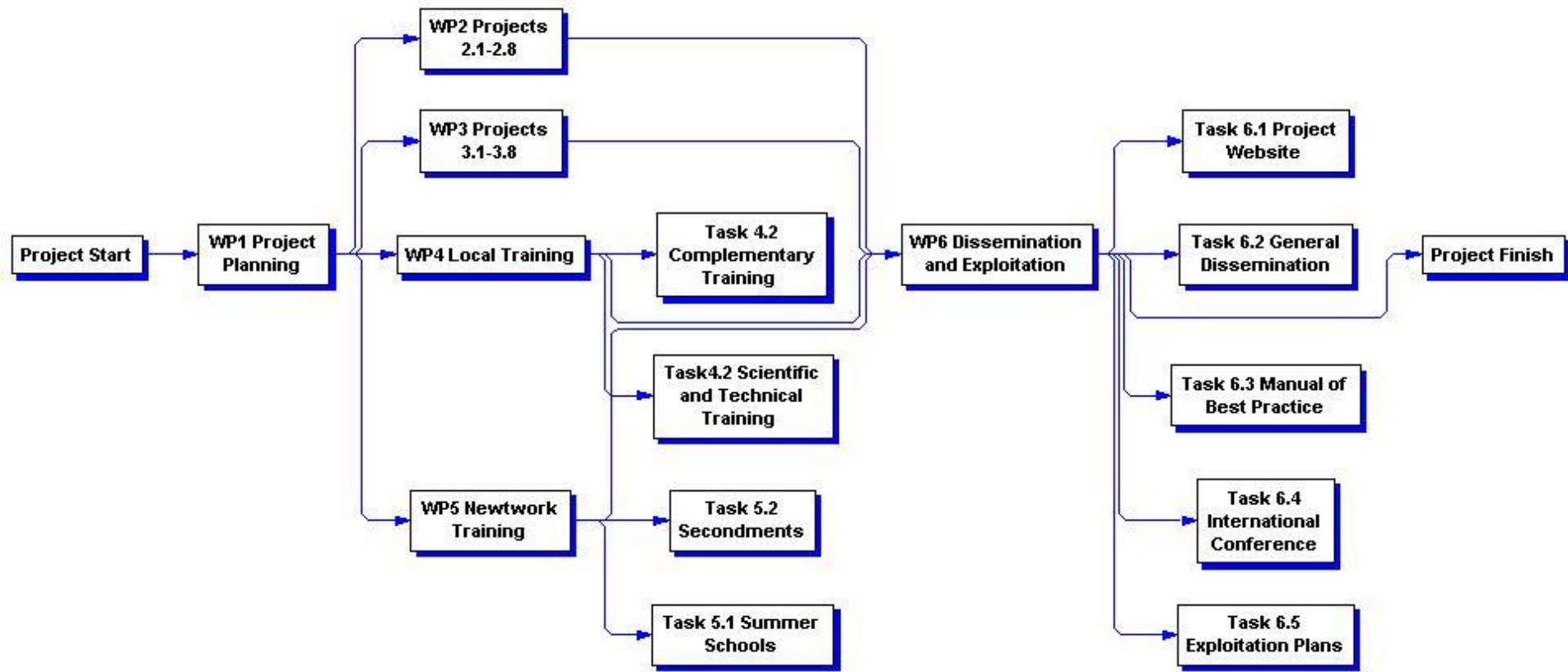
ATWARM Timeline

- Start date: 1st December 2009
- 4 year (48 month) duration
- End date: 30th November 2013

- Recruit all PhD students before Month 12
 - Ideally have students in place by Sept/ Oct 2010 (Month 10)
- Recruitment of post-docs: before Month 12
 - Shorter contract (24 months) – recruit up to Month 20

Work Packages

- WP1: Project Planning
- WP2: Advanced technologies for enhancing performance and/ or sustainability of water & wastewater treatment plant
- WP3: Advanced technologies for enhancing water quality, including advanced technologies for analysis & monitoring
- WP4: Local training
- WP5: Network training
- WP6: Dissemination & exploitation



Months 1-10	Months 10-46	Months 5-48	Month 48
Dec09-Sept10	Sept10-Sept13	April10 – Nov13	Nov13 + 2 months
Recruitment, website, project planning	Research projects & training – local & network-wide (summer schools, secondments)	Website, papers, posters, conferences, exploitation plans	Final report to EC

WP1: Project Planning

- Main task: Project management & coordination
 - Administration & Communication
 - ✓ Recruitment
 - ✓ Finance
 - ✓ Reporting
- Lead partner: QUB
 - Management Group
 - Coordinator: Wilson McGarel
 - Project Manager
 - Project Administrator
- Supported by: all other partners

WP1 Objectives

- Coordination of the 7 partners
- Daily project administration
- Plan and deliver regular (6 monthly) network-wide project meetings
- Collect annual technical project reports for preparation of EC annual reports.
- Collect and distribute project reviews and Personal Development Plans of researchers to the Supervisory Board - to ensure all project tasks, milestones and deliverables are achieved.

WP1 - Administration

- Coordinated at QUB (Management Group)
 - Will ensure all project milestones and deliverables are achieved
 - Will ensure completion of Personal Development Plans for recruited Fellows
 - Will ensure communication with the Supervisory Board

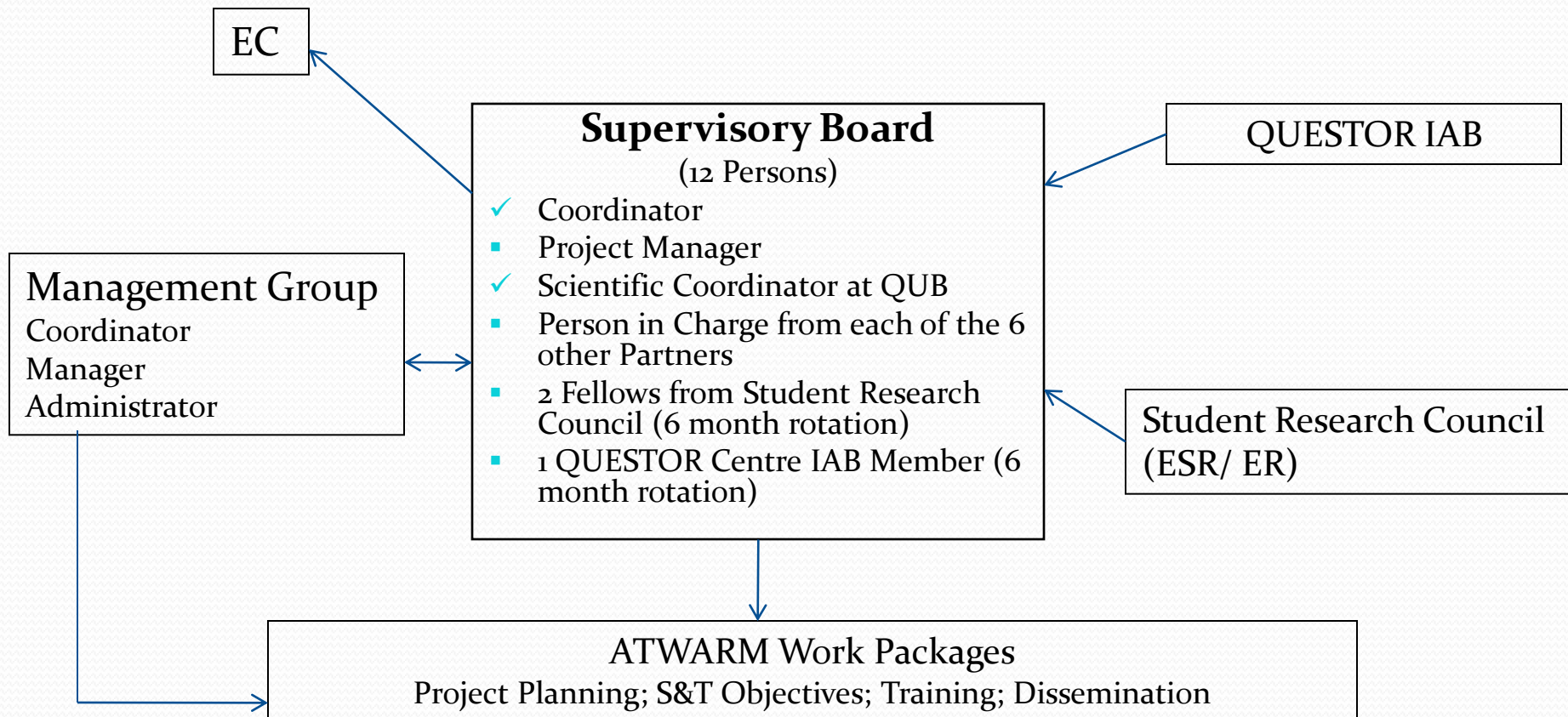
Milestones

- 32 Milestones – including:
 - Recruitment
 - Submission of 6 monthly reviews to Supervisory Board
 - Coordination of Summer Schools
 - Overall management of research & training programmes

Deliverables

- 30 Deliverables, including:
 - Distribution of meeting minutes
 - 16 Research project deliverables (– Scientific Coordinator)
 - Declarations on Conformity
 - Summer School Proceedings
 - Project website
 - Manual of Best Practice
 - Training manuals
 - Exploitation Plans for projects with potential for commercialisation

ATWARM Management Structure



Supervisory Board

- Person in charge from each Partner site
 - QUB – Wilson, Mike
 - DCU – Dermot Diamond
 - UDE – Michael Eisinger
 - IWW – Torsten Schmidt
 - CRA – Raffaella Villa
 - TEL – Mark Bowkett
 - NIW – Sam Irwin
- Representatives from IAB
 - 2 members for every 6 months

Role of Supervisory Board

- Review 6 monthly progress reports & Personal Development Plans
- Ensure high standard of training is achieved
- Ensure ATWARM S&T objectives are achieved
- Dissemination routes
- Exploitation plans

Personal Development Plans (PDP)

- Fellows and their supervisors will develop individual PDPs to:
 - Ensure development of additional skills/career/personal progress;
 - Set prioritised development goals throughout their research project to improve perceived S&T weaknesses and enhance strengths;
 - Make the young researchers more effective in monitoring and reviewing their progress;
 - Create an individual record of skills, qualities and achievements that they can use when applying for future employment;
 - Enhance their capabilities to become a more independent, confident and self-directed researcher.

Scientific Coordinator

- Prof Mike Larkin
 - To ensure a high standard of S&T training is available to the Fellows
 - To support the coordinator in ensuring the the S&T deliverables of the project are achieved
 - To ensure effective dissemination of project outputs

WP2: Advanced technologies for enhancing performance and/ or sustainability of water & wastewater treatment plant

- Main task: Execution of 8 research projects
 - 7 PhD students &
 - 1 post-doctoral research fellow
- Lead partner: UDE
- Supported by: IWW, DCU,
- QUB, CRA & NIW

Research Project	Lead
2.1 Non-thermal plasmas created by corona-like discharges for eliminating recalcitrant organic contaminants	IWW
2.2 Development of novel integrated photocatalytic adsorbents (IPCAs) for organics removal from water and wastewater	DCU
2.3 Phosphorus removal and recovery from wastewater	QUB
2.4 Nutrient removal in wastewater using algae and fibre optics as a source of light	UDE
2.5 Priority substances in activated sludge: incidence, accumulation, source tracking emitter identification and prevention strategies	UDE
2.6 Integrated process for biogas production from algal biomass	CRA
2.7 Delivering low carbon anaerobic wastewater treatment and renewable energy production	CRA
2.8 Design and introduction of a carbon management system to Northern Ireland Water	NIW

WP3: Advanced technologies for enhancing water quality, including advanced technologies for analysis & monitoring

Research Project	Lead
3.1 Fast on-site monitoring of gasoline-related compounds at contaminated sites using differential mobility spectrometry	IWW
3.2 Development of rapid technologies for the assessment of biodegradation potential in contaminated groundwater using gene array technologies	QUB
3.3 Method development: detection of hydrocarbons in water	TEL
3.4 Arsenic removal from water using dolomites and modified dolomites	QUB
3.5 Development and deployment of a faecal matter sensor in a marine and freshwater environment	DCU
3.6 Assessment and usefulness of integrating stable isotope data and data on pharmaceuticals to disentangle point and diffuse sources of pollution	DCU
3.7 Next generation autonomous analytical platforms for remote environmental monitoring: Project 1- Microfluidic platforms incorporating stimulus-responsive materials	DCU
3.8 Next generation autonomous analytical platforms for remote environmental monitoring: Project 2- Generation of fully functioning Biomimetic Analytical Platforms (water quality)	DCU

- Main task:
Execution of 8 research projects

- 7 PhD students &
- 1 post-doctoral research fellow

- Lead partner: DCU

- Supported by: IWW, UDE, QUB & TEL

WP4 – Local Training

- Main task: Coordinate training of 16 Marie Curie Fellows within ATWARM at the host site
 - Personal Development Plans
- Lead partner: QUB
- Supported by: All partners
- 2 sub-tasks
 - S&T Training
 - Laboratory/ computing-modelling skills
 - Complementary Training
 - Business aptitude (employability) training skills

WP4 sub-tasks

- Specific scientific training at each host site, including:
 - Instrumentation for chemistry research - GC-MS, HPLC, LC-MS, ICP-MS
 - Techniques for microbiology & molecular biology research
 - Facilities & instruments for multi-disciplinary sensor research
- Complementary training at each host site, including:
 - project management
 - good research practice
 - presentation skills & verbal communication
 - writing scientific papers and reports.

WP5 – Network Training

- Main task: Coordinate training of 16 Marie Curie Fellows through interactions with network partners
- Lead: QUB
- Supported by: all other partners

- 2 Sub-tasks
 - Summer Schools
 - 3 summer schools – attendance compulsory
 - Secondments
 - PhD students seconded to another site for 3 months, Y2
 - Post-doctoral fellows seconded to another site for 1 month, Y2

WP5 – Summer Schools

Date	Title	Duration	Host
Y1	<p><i>S&T training:</i> Enhanced technologies for water & wastewater treatment. At least one site visit.</p> <p><i>Complementary skills training:</i> Innovation skills development & e-learning platforms</p>	3d + 1d	UDE & IWW
Y2	<p><i>S&T training:</i> Sustainable water & wastewater treatment, including carbon footprinting. At least one site visit.</p> <p><i>Complementary skills training:</i> IPR & Commercial awareness; UK GRAD Programme</p>	3d + 5d	QUB, CRA & NIW
Y3	<p><i>S&T training:</i> Monitoring water quality: sensors & analytical techniques. At least one site visit.</p> <p><i>Complementary skills training:</i> Entrepreneurship & Quality Systems</p>	3d + 1d	DCU & TEL

WP5 - Secondments

- To enhance the mobility of the students
- To provide training in inter-disciplinary and complementary skills
- To improve the networking opportunities
- Majority of secondments are 3 months duration – for effective knowledge transfer prospects.
- Accommodation: prior arrangements with local hotels/ self-catering apartment providers – hold ‘x’ rooms for a period of 3 months (6 months in advance?)

WP6 – Dissemination & Exploitation

- Main task – coordinate dissemination of project activities and results, as well as exploitation of research results
- Lead partner: QUB
- Supported by: all other partners

- 5 sub-tasks
 - Project website <http://www.atwarm.com>
 - General dissemination – papers, posters
 - Manual of Best Practice
 - International Conference (DCU – Y4)
 - Exploitation Plans



Search

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Welcome

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News

- » News item 1
- » News item 2
- » News item 3

Partnered by



Supported by



Dissemination

- ❖ Must display Marie Curie logo and EC flag + project logo on all ATWARM dissemination material
- ❖ Project logo – to be approved by Supervisory Board
 - ❖ Possibilities developed by QUB media team



#1



#2



#3

Dissemination

- Scientific level
 - High quality peer-reviewed scientific journals
 - Academic workshops & Conferences (oral & poster)
- Teaching level
 - Training material from ATWARM summer schools & events to ATWARM Fellows, QUESTOR PhD students
- Public level
 - Fellows to attend trade fairs, workshops, conferences
 - Articles in local & university newspapers

Reporting templates

- Project Manager to develop an internal reporting template – used by the partners for submission of 6-monthly reports
 - Description of progress
 - Major achievements
 - Alignment with deliverables & milestones
 - Scientific & training issues
 - Updated plan for using & disseminating knowledge.

More dissemination

- Manual of Best Practice (Deliver by Month 48)
 - To cover training skills developed by supervisors – will be used for future training opportunities
- International Conference (Deliver in Y3-Y4)
 - Organised by DCU – *probably in Dublin*
 - Open to ATWARM, QUESTOR plus at least 30 external researchers, industrialists & government
- Exploitation Plans
 - For projects with commercially exploitable results

Thank you for
your attention!

Discussion