



Database Technology Professional Extended DBTech EXT



Education and Culture DG

Lifelong Learning Programme

The next three talks report on collaborative work undertaken along the lines of the DBTechNet Consortium. The speakers participate in the DBTech EXT project, partially funded by the EU LLP Transversal Programme (Project Number: 143371-LLP-1-2008-1-FI-KA3-KA3MP)

Database Technology Professional Extended **DBTech EXT**



Education and Culture DG

Lifelong Learning Programme



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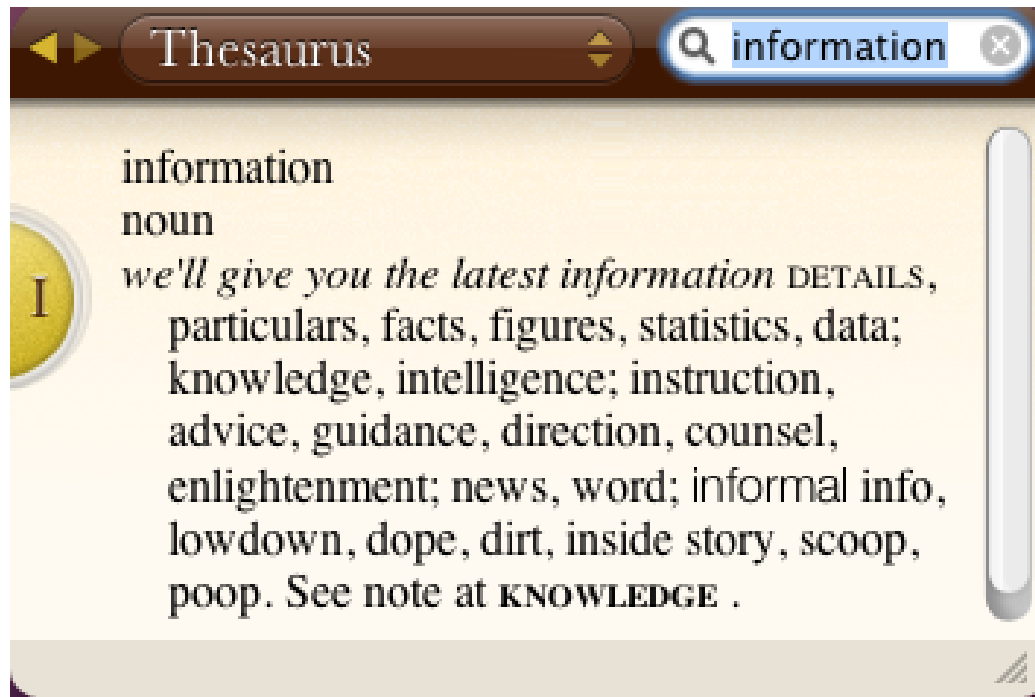


Database Technology Professional Extended DBTech EXT



- Algorithms and data unified by integrating programming code
- Non-procedural operators that manipulate extensible object sets
- Multi-dimensional data organization to facilitate analytical processing
- Data mining and machine algorithms to extract useful information from large volumes of data
- Embedded text, temporal and spatial access methods
- Stream processing, replication, distribution, web services, publish subscribe systems, xQuery access patterns, etc., etc.

- J. Gray, *The Revolution in Database Architecture*,
ACM SIGMOD, June 2004



... from data organization and processing to semantic model / ambient intelligence realizations leading to systems that proactively offer 'just-in-time' information in a subtle, non-intrusive way



For Teachers/Trainers:

- Required to cope with a number of (often: cross-disciplinary) specializations and skills
- In the absence of super-human abilities, they need to collaborate / unite forces

For the DB Professionals:

- Further education, training, certification
- Lifelong Learning (utilizing ICT to achieve both effectiveness, as well as flexible learning/studying time scheduling)

For Education: yet one more reason to Go Open:

MIT OpenCourseWare, OpenCourse, iTunes U (Universities)



SELECT U.Academics, I.Professionals, V.Teachers_Trainers

FROM EU_Universities U, EU_Industry I,
EU_VET_Centers V

WHERE (Motivation = High)
AND (Enjoy (Teaching, Training))
AND (European Conscience = High)
AND (NOT (Represent (EU.Brand Name)))
AND (Specialize_in_Database_Technology)
AND (Focus_on_Professional_Education_Training)
AND (Rate_High_Pedagogical_Correctness)

GROUP BY Workgroups

HAVING ('Hands-On' Educational/Training/WS&VLW
Content, Professional Certification
Framework, & more...) **AS** Deliverables



- Established in 1997
- DBTech Pro: 12/2002-05/2005
 - 8 HE institutions, 4 I.T. companies,
 - 5 E.U. member states,
 - E.U. LdV Programme,
 - €443,458
 - <http://dbtech.uom.gr>



Inner Circle:

- 6 EU member states represented
- 7 HE academic institutions
- 3 VET centers
- 1 I.T. company

Outer Circle:

- 9 EU member states represented
- 13 HE academic institutions
- 5+ VET center(s)
- 8 I.T. companies/DBMS vendors

Project duration:

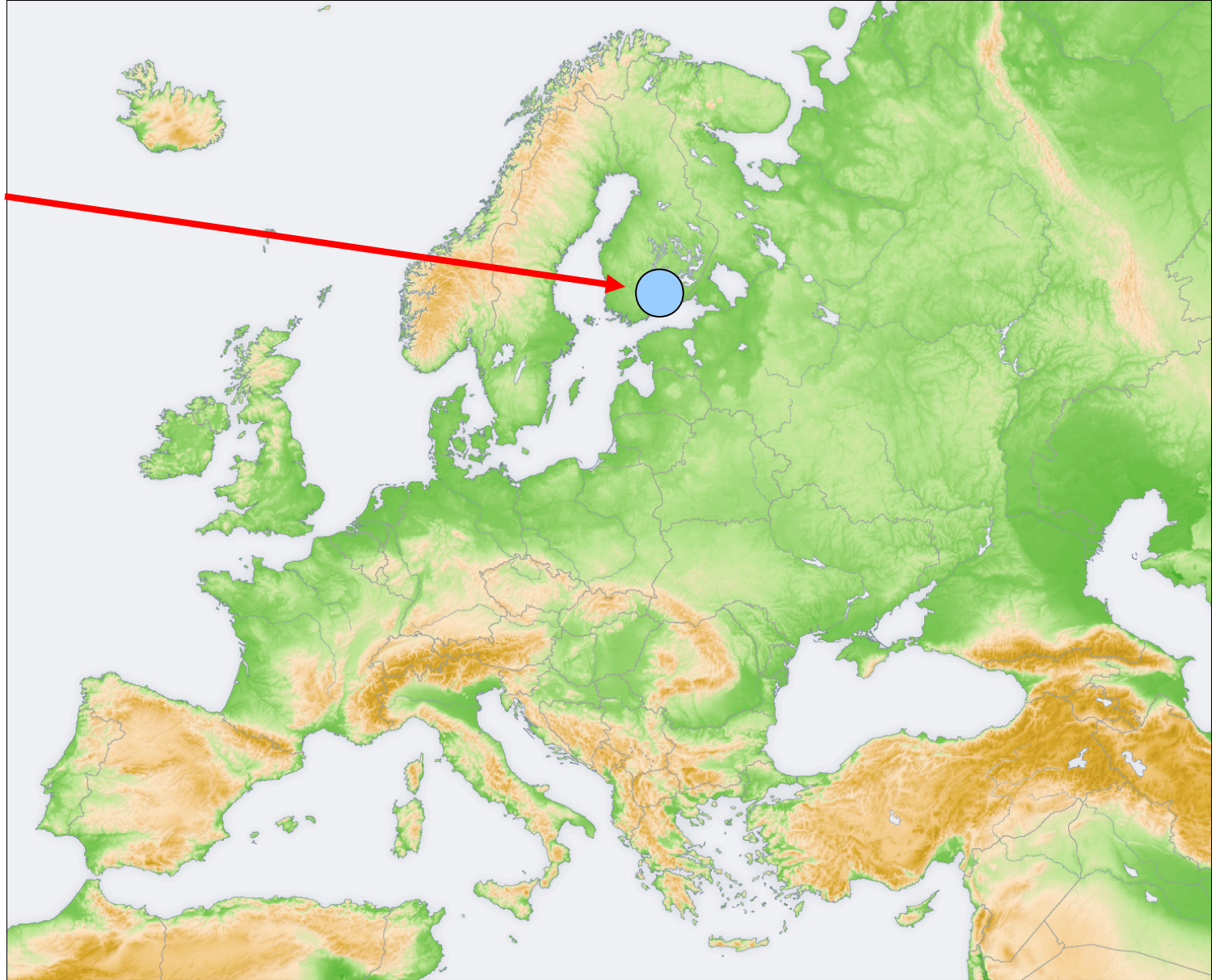
Nov 2008 – Dec 2010

Funding:

LLP Transversal Programme (€508,391)



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Tieto Public Industry
Helsinki Business College
Omnia



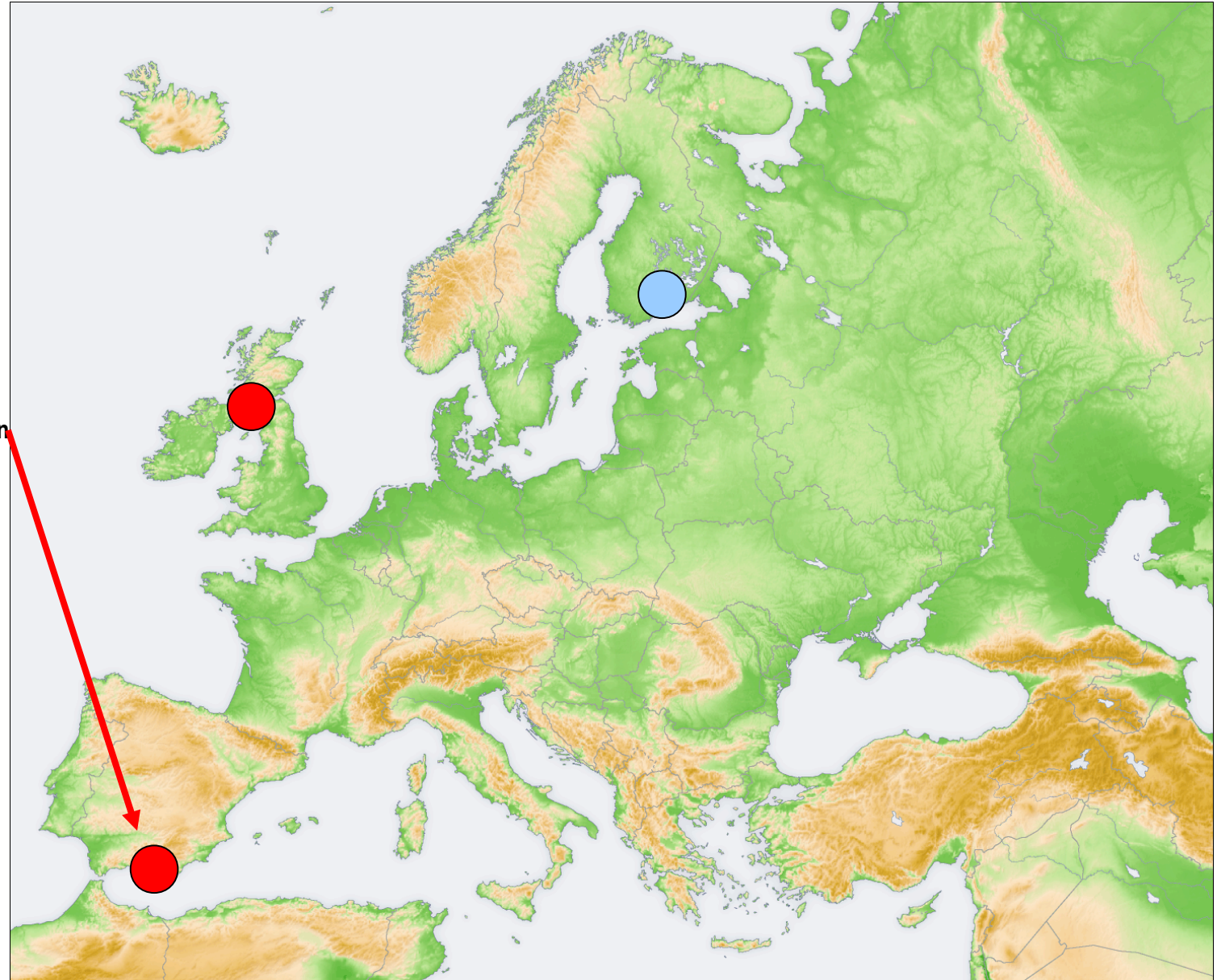


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Univ. West of Scotland



DBTech EXT on the map



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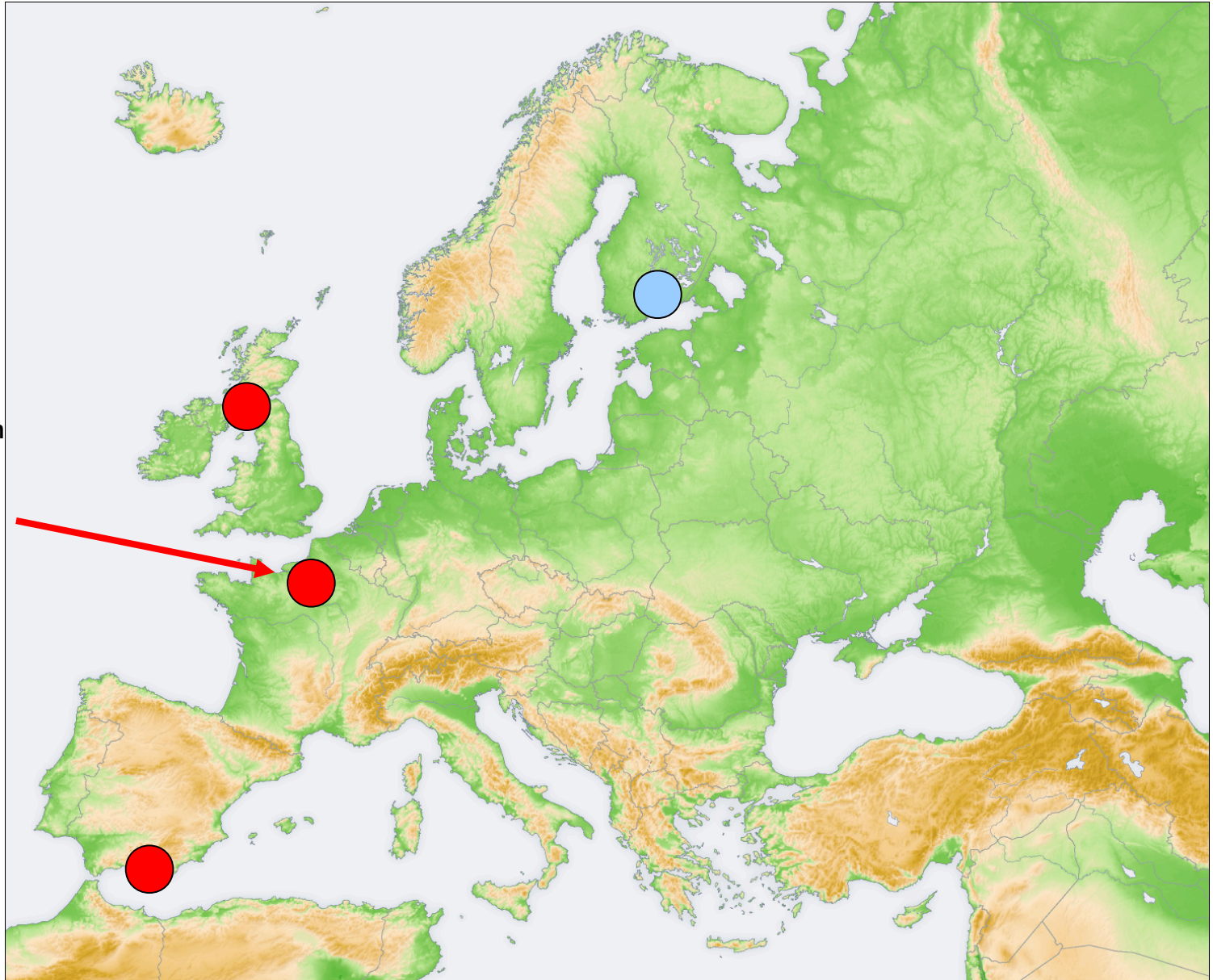
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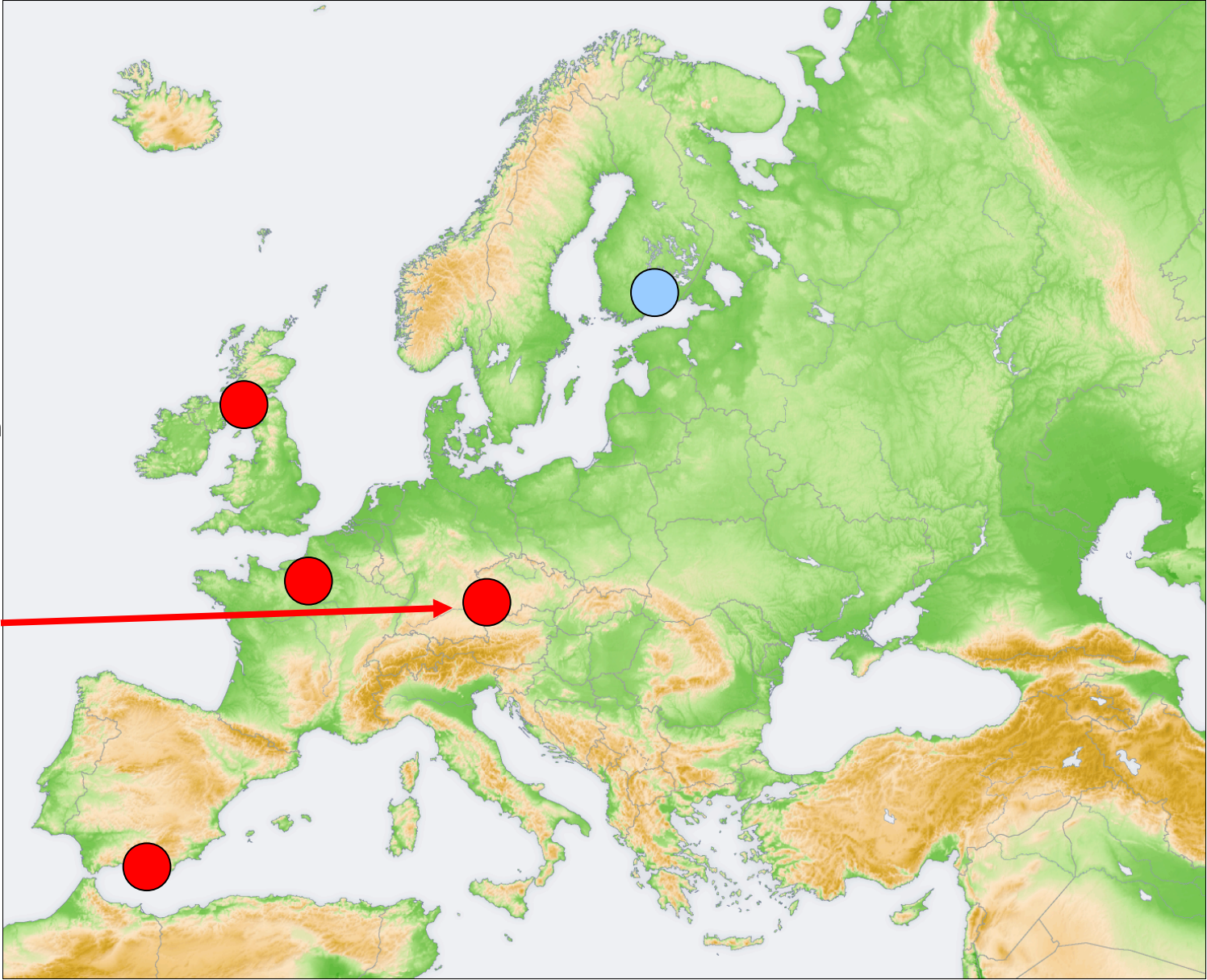


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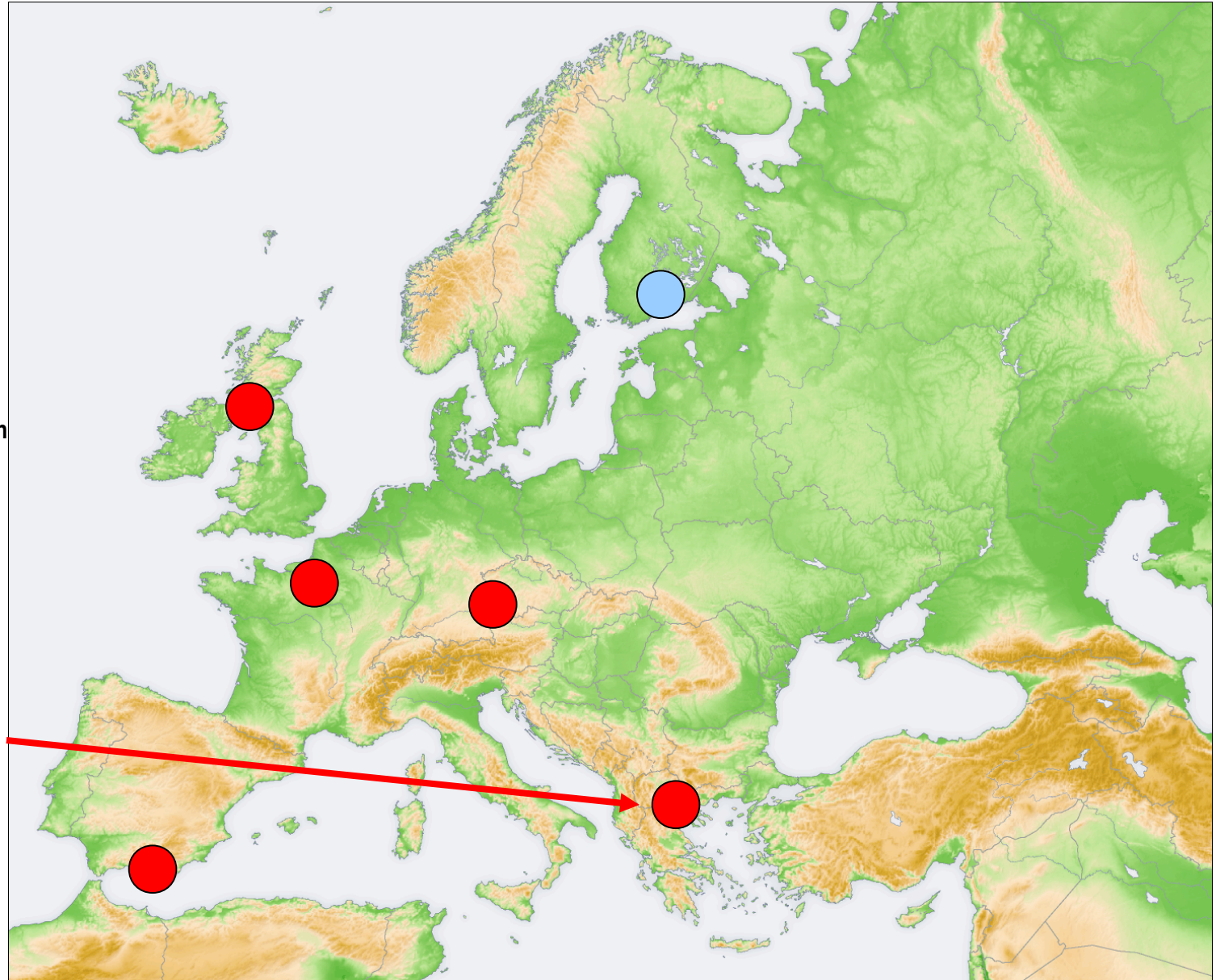
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Alexander TEI
Univ. of Macedonia



- WP1 (HH) : Project co-ordination and Management**
- WP2 (ATEI): Pedagogy and Quality Assurance**
- WP3 (HRT) : Framework of Courses, Learning Outcomes (EQF/ECTS), Workshops**
- WP4 (SLK) : The VET Dimension of the DBTech (HE) Framework**
- WP5 (UMA): MSc/PhD Professional Degrees in Database Technologies**
- WP6 (ATEI): Project Deliverables, Dissemination of**
- WP7 (UoM): Project Results, Exploitation of**



- Invaluable Experience
(DBTech Pro & DBTech EXT)
- A wealth of E&T content
(Virtual Laboratory Workshops)
- Strong & coherent partnership
(one word said, five understood)
- Have established the critical mass
of (outer circle) contacts to proceed
with large scale LL E&T offerings





Happy
DBTech-ing!

