Distributed Computing and the SFB

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Marketing

Market Segmentation
and
Product Positioning

WU Wien

Production

Artificial Factory
Organizational Behaviour

Uni Wien
WU Wien

Finance

Investment
Artificial Financial Markets

Uni Wien
WU WIen

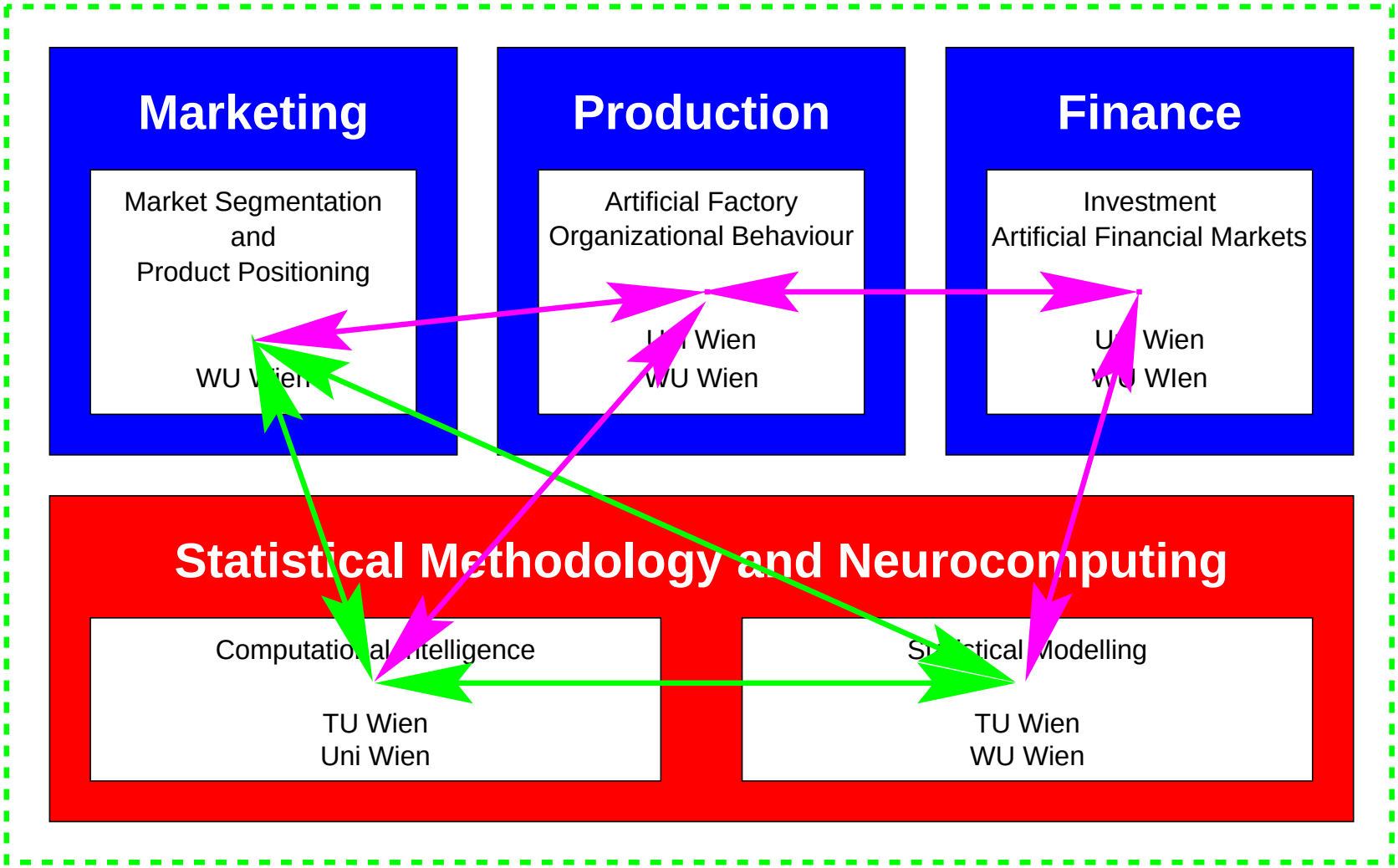
Statistical Methodology and Neurocomputing

Computational Intelligence

TU Wien
Uni Wien

Statistical Modelling

TU Wien
WU Wien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Why distribute?

- Research groups at different locations: WU, Uni, TU
- Platforms: Windows vs. Unix/Linux
- Programming Environments: C, Pascal, Matlab, Octave, R, . . .

What happened so far?

Friday: Simulation environments for the SFB,
data exchange formats, general software design

Saturday: Distributed Computing, Omega

Sunday: Various issues on R and S

Data Exchange

Save format / primitive communication: XML

Enhanced communications: CORBA interfaces

Program communications

One machine, different environments: use Java to glue things together (main idea of Omega)

Completely distributed: CORBA interfaces for all environments:

- Generic where possible
- Special where necessary

Outlook

- Use R as first testbed by making two R processes talk to each other (from different machines)
- Use other interfaces for R (Excel,. . .)
- Start discussions on data types for the SFB: consumer, company, . . .