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

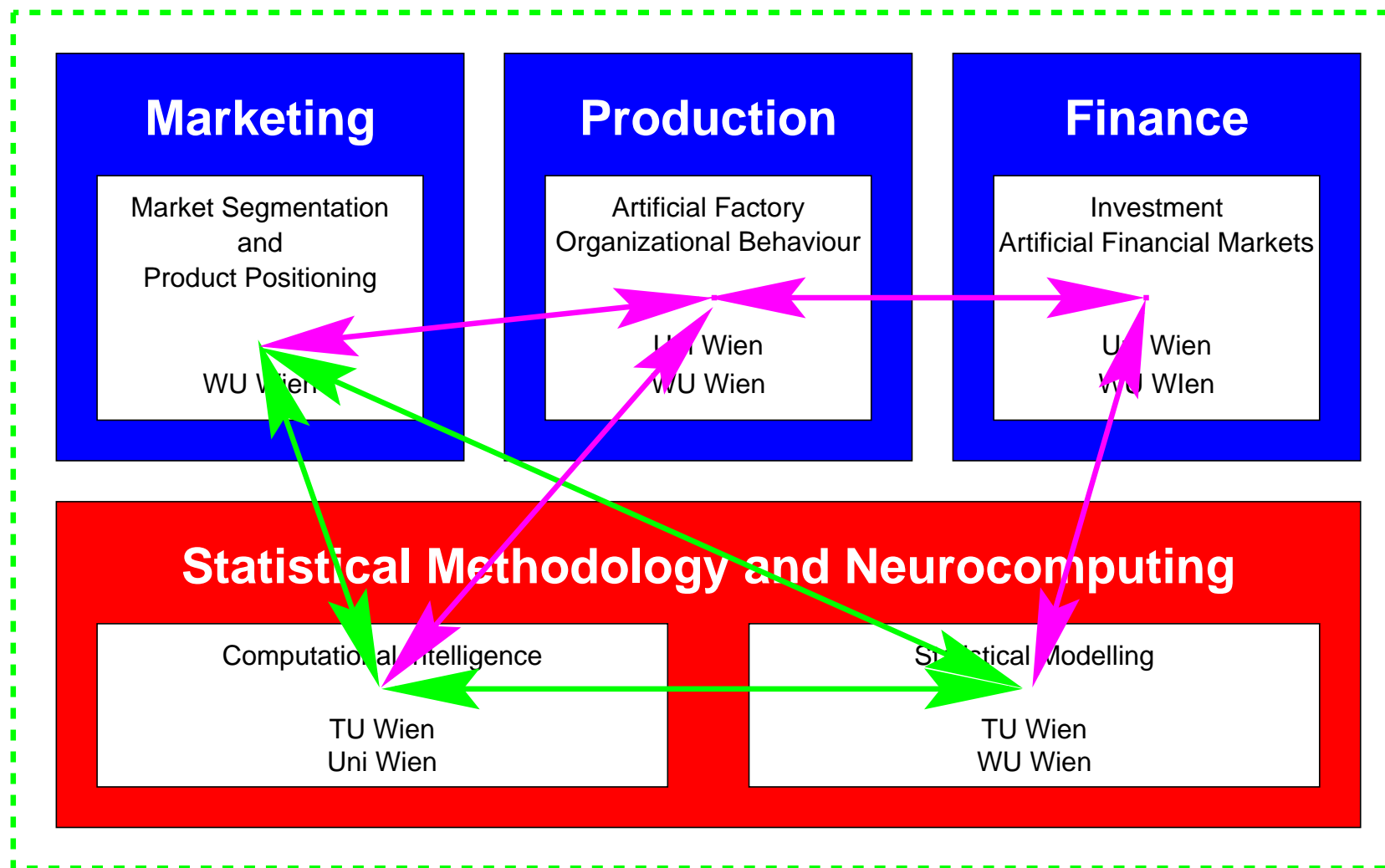## Statistical Methodology and Neurocomputing

Computational Intelligence

TU Wien
Uni Wien

Statistical Modelling

TU Wien
WU Wien

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, . . .