

Session 2: Research Information Infrastructure

Supporting the research process:
Challenges and opportunities facing librarians

Wendy White

**Faculty Librarian and Institutional Repository Manager
University of Southampton, whw@soton.ac.uk**

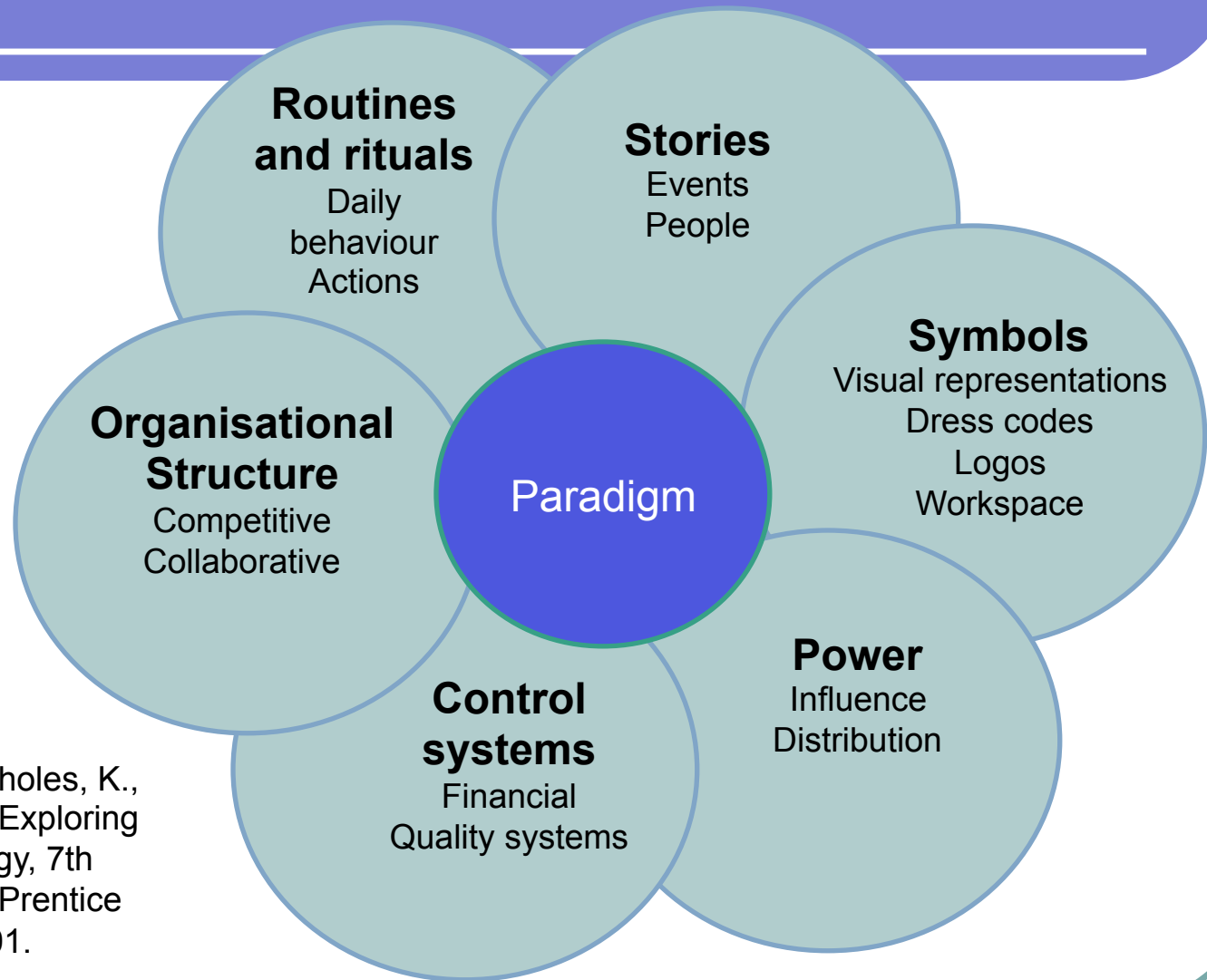
Chris Middleton

**Head of Academic Services
University of Nottingham, c.middleton@nottingham.ac.uk**

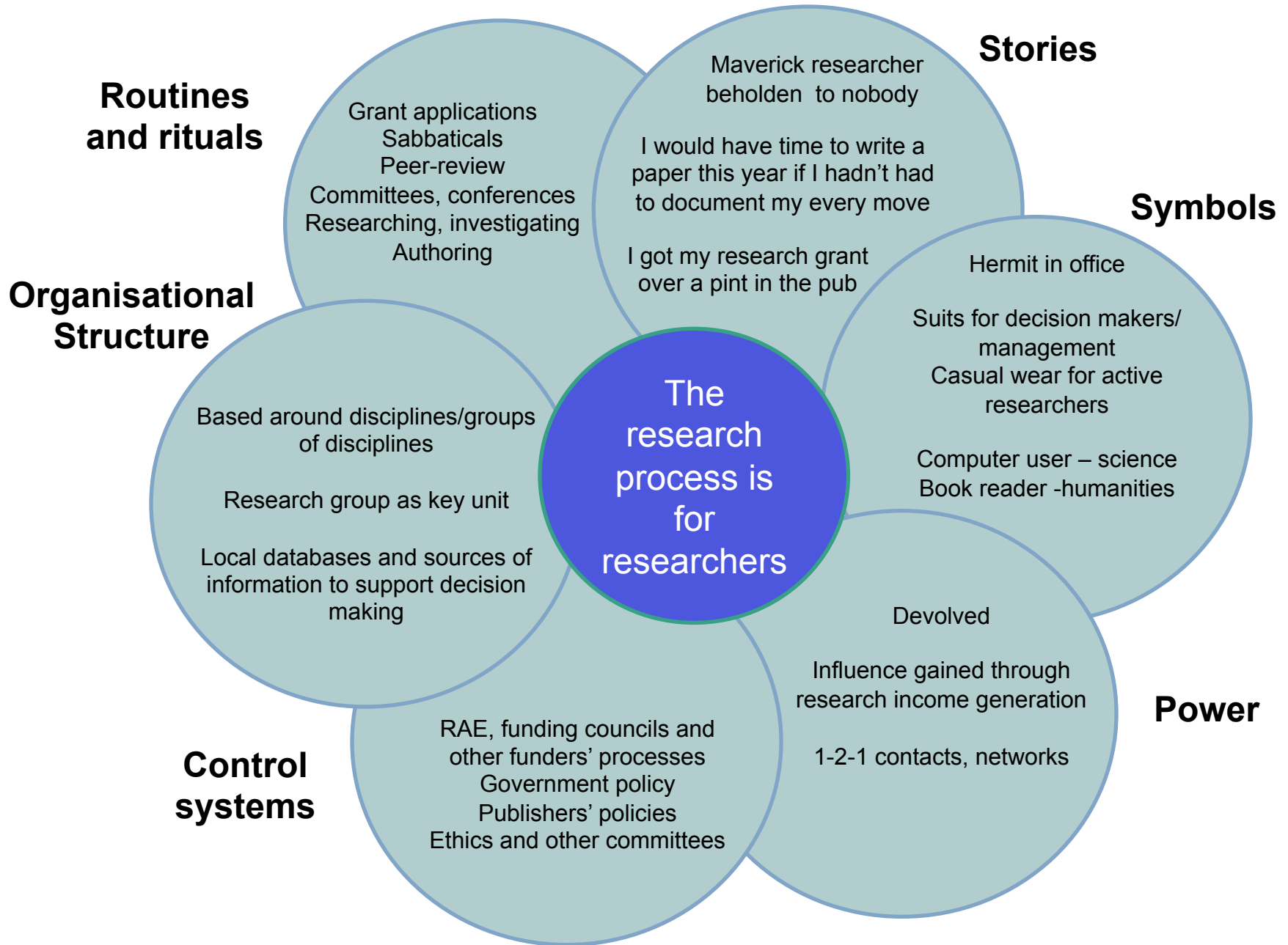
Programme

- Introduction to the cultural web as applied to the research process [15 mins]
- The future: where do librarians fit in? [Workshop – 20 mins]
- How can we help? [20 mins]
- Skills analysis [Workshop – 15 mins]
- Skills summary [10 mins]
- Discussion [10 mins]

The Cultural Web



Johnson, G., Scholes, K., Whittington, R. Exploring corporate strategy, 7th ed. Harlow : FT/Prentice Hall, 2006. p. 201.



The future: where do librarians fit in?

Workshop session

**The
research
process is
for all**

Stories

Vigorous social networker both virtual and physical

I have written 2 papers this year and I have had to document my every move

I got my research grant as part of a multi-skilled team of colleagues

Symbols

Collaborative spaces/networks – virtual and physical .
Peer working with library staff, valuing specific areas of expertise. Tipping point shift to e-environment base for almost all researchers, librarians for access management, digital content development, etc.

Power

1-2-1 contacts developing into more complex networks.

Active alliances e.g. with funders, researchers in other institutions, librarians part of alliances.

Researchers increase control of dissemination

Librarians as advocates and facilitators – partnership with researchers and funders.
Librarians as expert enablers - shared infrastructure, policy development and copyright.

Role of ethics , development of access models, esp. data.
REF – librarians key

Control systems

Library involvement in models to support interdisciplinary working.

Central integrated databases to support research management.

Library key role in shaping information and IT infrastructure – knowledge management

Routines and rituals

Collaboration
Assistance with bidding process
Involvement in data frameworks, research dissemination, etc

Organisational Structure

How can we help?

- Identifying partners
- Providing pathways to information
- Encouraging collaborative working
- Facilitating dissemination
- Supporting research assessment

Identifying partners

Through citations:

- ISI products: HighlyCited.com , in-cites,
- SCOPUS TopCited: <http://www.topcited.com>

Through scholar profiles:

- ResearcherID.com [ISI]
- Community of Science: COS Expertise, COS Scholar Universe
- CORDIS: Partners Service: <http://cordis.europa.eu/partners-service/>

Using bibliographic databases:

- General keyword search to identify active researchers
- Faceted results by author, by institution

Providing pathways to information

Promoting effective searching

- ◉ Information skills training
- ◉ High visibility of quality resources
 - Local gateways
 - Subject based lists
 - Federated searches
 - Pervasive linking technology
 - OpenURL, SFX
- ◉ Provision of “value-added” functionality
 - saved searches, alerts, RSS feeds
 - personalisation, tagging, ratings

Removing barriers

- ◉ Minimum click counts
- ◉ Single sign-on, IP address recognition, proxy servers, Athens/Shibboleth

Encouraging collaborative working

Communication

- ◊ Blogs: researcher to researcher, library updates
- ◊ Microblogs: exchange of quick and frequent information: Twitter
- ◊ Instant messaging: MSN, Skype

Shared research

- ◊ References: EndNote Web, Connotea, RefShare
- ◊ Bookmarks: Del.icio.us, iBreadcrumbs

Collaborative authoring

- ◊ Google Docs
- ◊ Wikis: Confluence, Wikispaces

Social networks

- ◊ Facebook, Elgg
- ◊ SciVee (multimedia social research tool)

Facilitating dissemination

Providing journal ranking information

Supporting Open Access options

- ⊗ Institutional repositories
- ⊗ OA publishers
- ⊗ funding to cover Article Processing Charges

Web based publishing

- ⊗ YouTube
- ⊗ SciVee

Advising on Intellectual Property Rights

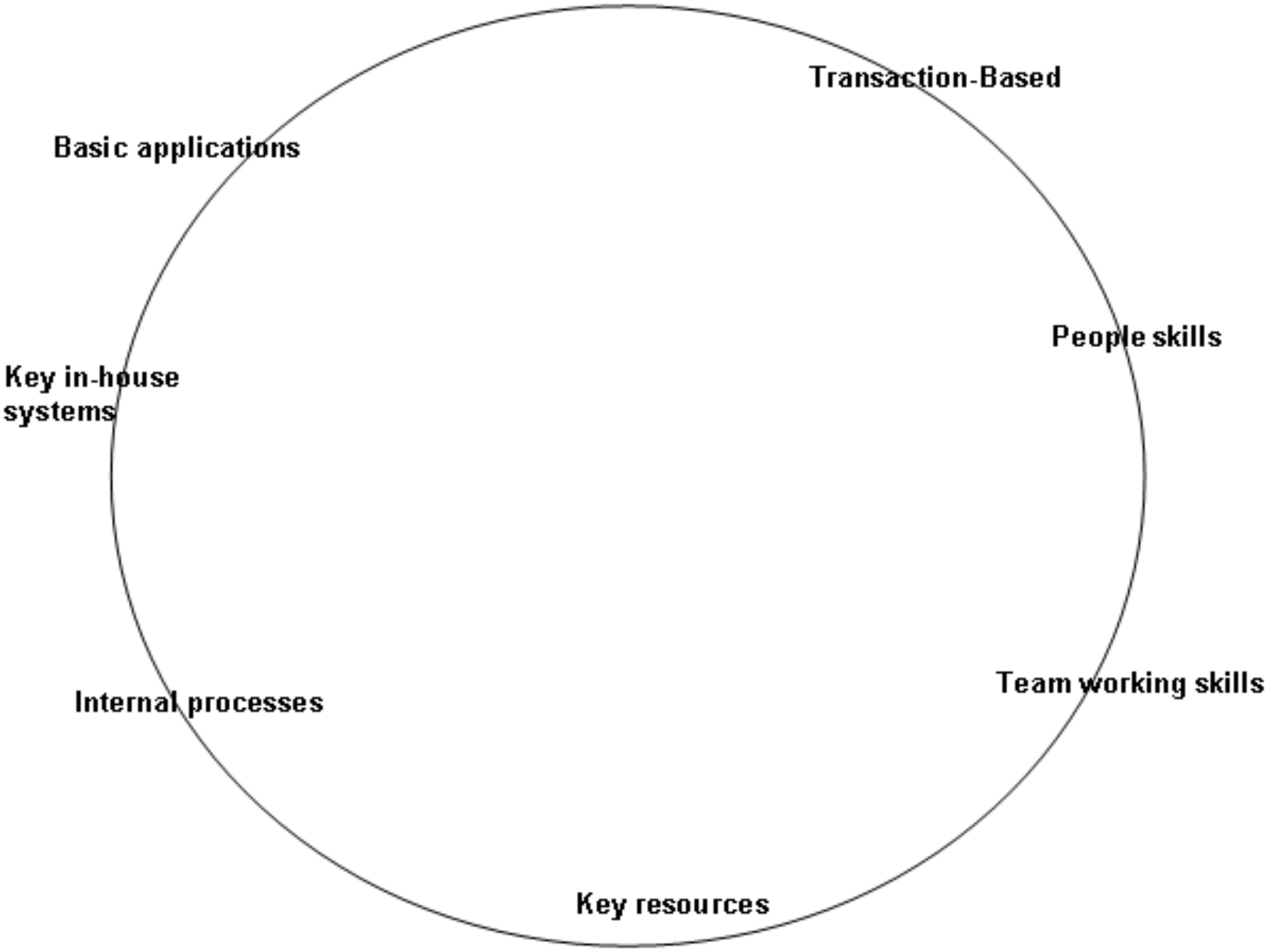
- ⊗ Copyright
- ⊗ Licences
- ⊗ Contracts

Supporting research assessment

- Involvement at publication stage
 - Impact factors
 - Open access and citation tools - H-index, institutional repository statistics
 - Sharing experience of changes in scholarly communications – role of editors
- Validating and organising research data
 - To have institutionally gathered picture of research activity
 - For research management and re-use of data
- Developing metrics
 - Tools for analysis of research volume and impact
- Creating a new research infrastructure
 - Linking institutional data systems more effectively

What skills are required?

Workshop session



Transaction-Based

Basic applications

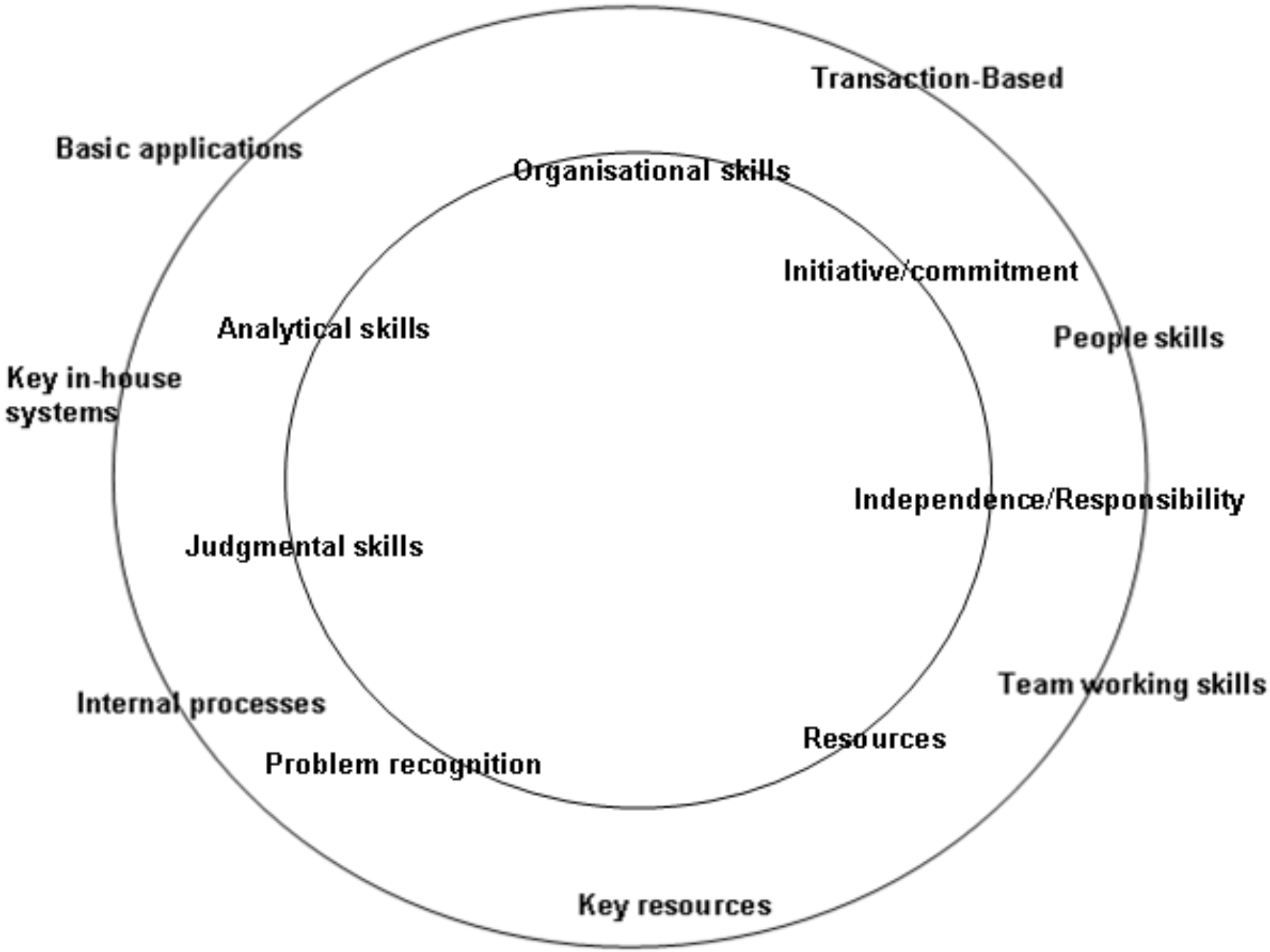
People skills

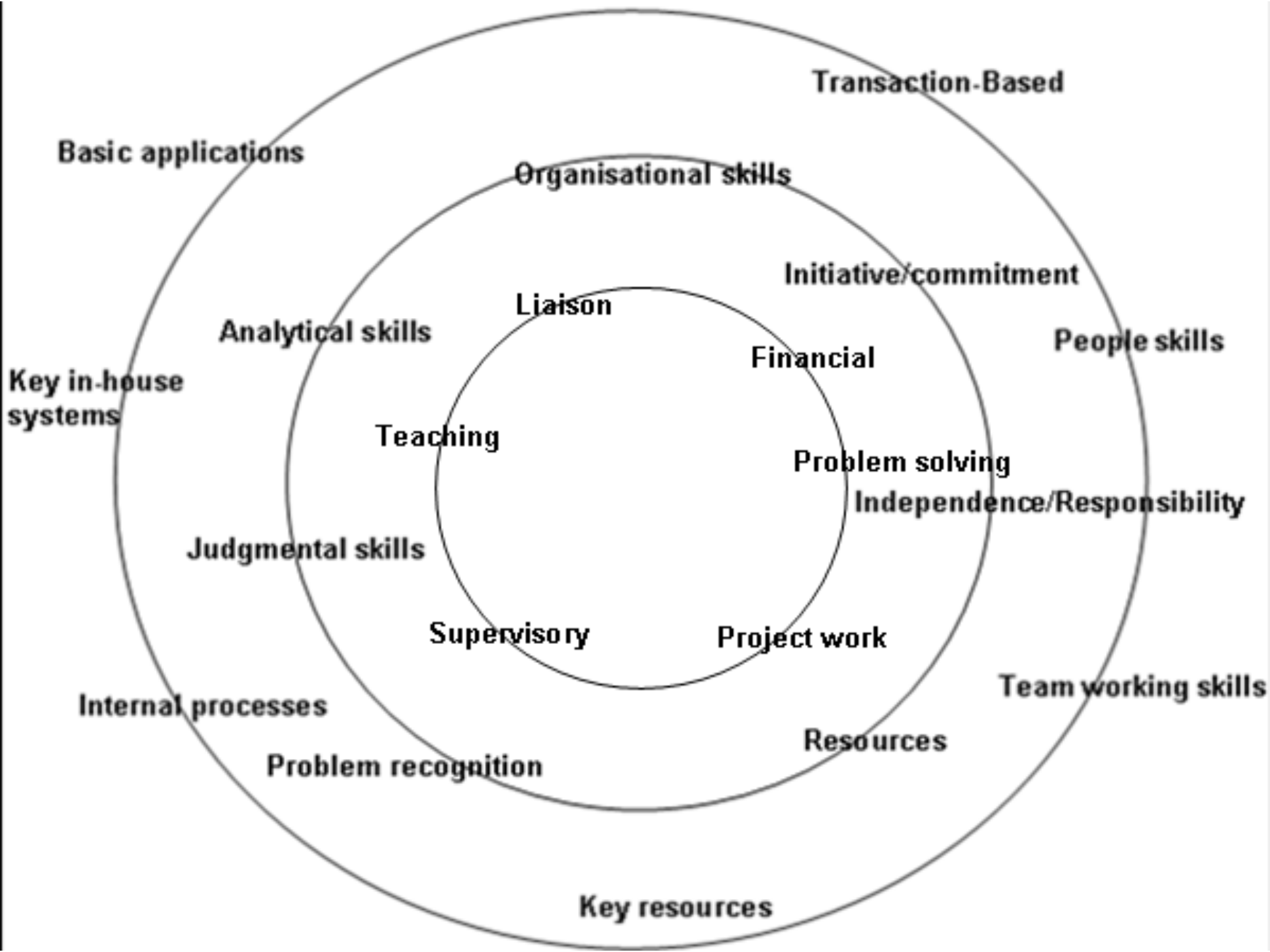
Key in-house systems

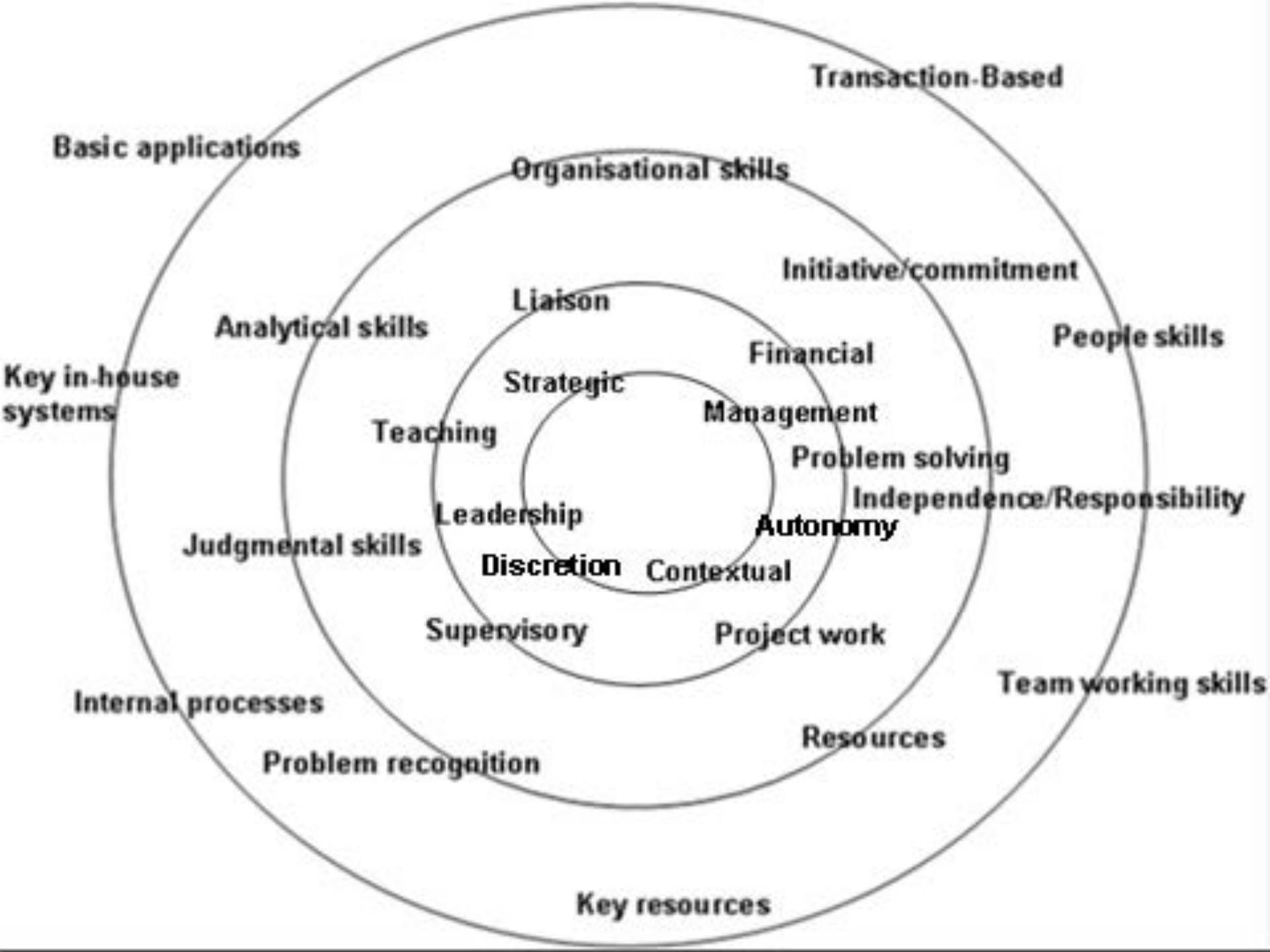
Team working skills

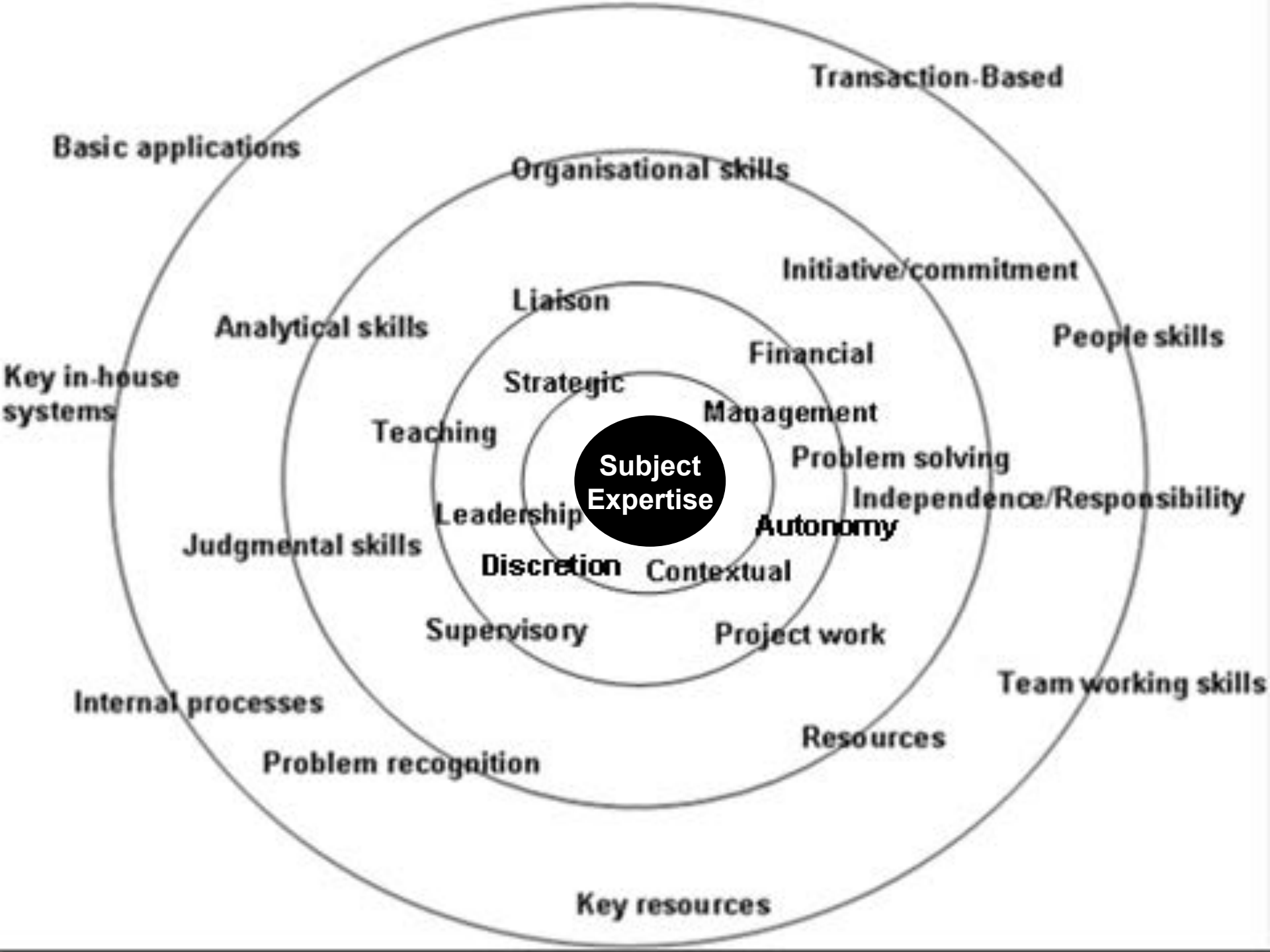
Internal processes

Key resources









Key points

- Responsive – changing requirements and technologies
- Content – knowledge of resources
- Integration
- Skills – developing
- Flexibility – variety of approaches
- Collaboration – with Schools/IT
- Technology – experiment
- Commitment – learning process