



Barriers and Change Management

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International focus

“Professional services provided by pharmacists who use their skills and knowledge to take an active role in patient health, through effective interactions with both patients and other health care professionals”
(Roberts’ doctoral thesis 2005)

- Barriers to widespread implementation³
- Models and frameworks for change
 - Major focus on the individual and behaviours, often ignoring organisational factors⁴
- Facilitators of change
 - Many individual factors identified, little consideration of how they work together to optimise implementation⁵

1. Hepler C, Strand LM. Am J Hosp Pharm 1990;47:533-43.

2. Cipolle RJ, et al. Pharmaceutical Care Practice 1998.

3. van Mil FJW, et al. Int J Pharm Pract 2001;9(3):163-8

4. Roberts AS et al. Int J Pharm Pract 2006; 14(2): 105-113

5. Roberts AS et al. Int J Pharm Pract 2006; 14(3): 163-70



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Barriers and Facilitators of Change

- **Barriers**

- **Pharmacist-related**

- Attitude e.g. fear of change, lack of self-confidence
- Practice skills e.g. limited communication skills

- **Resource-related**

- E.g. lack of management and incentives, lack of protocols and guidelines

- **System-related**

- E.g. limited acceptance by other health professionals

- **Academic and education related**

- Knowledge and training

- **Other**

- Lack of mentors and models, lack of vision

- **Facilitators**

- **Experiential**

- Remuneration
- Pharmacist competence
- Use of protocols
- Interaction with patient groups
- Profile within local community
- Atmosphere of pharmacy
- Motivation

- **Potential**

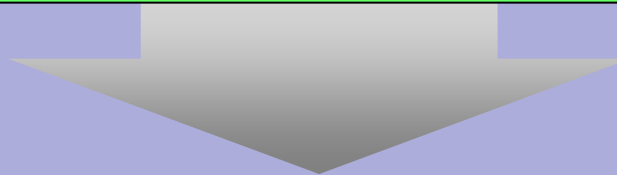
- Advertising
- Proven benefits of service
- Working as a team
- Documentation system
- Communication skills
- Professional reward
- Autonomy



Research aims

MAIN RESEARCH AIM

To undertake research addressing issues related to implementation and dissemination of patient orientated health care services in community pharmacy.



Collaborative International Research



2001

2002

2003

2004

2005

Development of qualitative research instrument.

Australian researcher in Denmark.

Qualitative studies completed in Denmark and Australia.

Danish researchers in Australia.

Publication of qualitative research instrument.

Qualitative study completed in Spain.

Quantitative study in Australia.

Keynote presentation at FIP congress.

Spanish and Portuguese researchers in Australia.

Qualitative study in Portugal.

“Change Management and Community Pharmacy” research in Australia

Publication of research results from Australia, Spain and Denmark

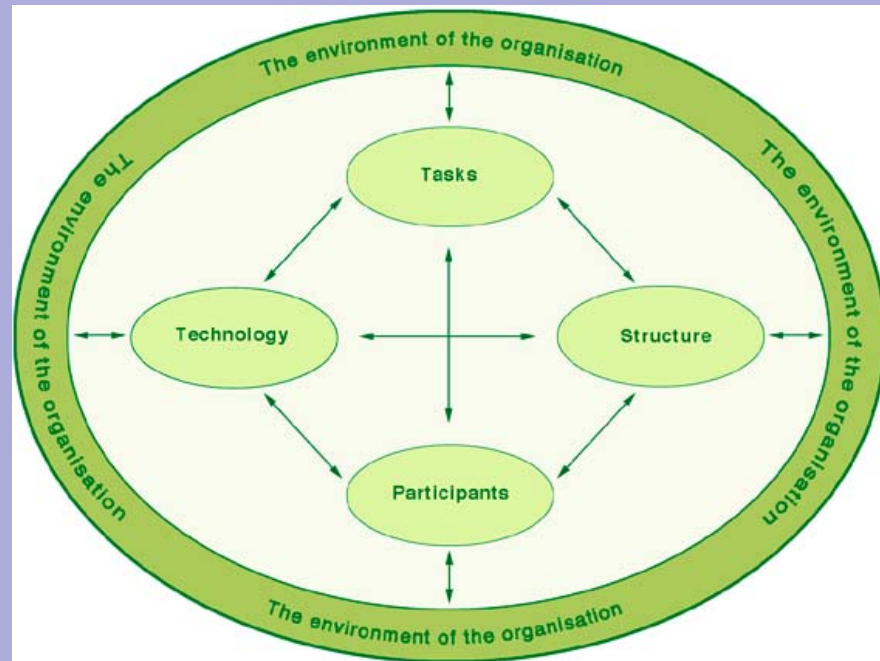
2006 AND BEYOND

Research commenced in Spain on quality systems in community pharmacy
Research commenced in Australia on business viability in community pharmacy



Theoretical framework: Organisational theory¹

- Values²
- Innovation adoption³
- Change strategies⁴



1. Leavitt, H. J. (1964). In: *New Perspectives in Organizational Research*. Wiley: 55-71. 2. Porter, E. H. (1976). *Group Org Studies* 1(13): 302-9.
3. Rogers, E. M. (1995). *Diffusion of Innovations*. New York, The Free Press. 4. Borum, F. (1995). *Strategies for Organisational Change*.



Change management in Australia

'01

"Development of a research instrument to identify factors affecting practice change in community pharmacy." [Honours thesis]



'03

"An investigation into business and professional facilitators for change for the pharmacy profession in light of the Third Guild/Government Agreement." [Report]



'04

"Quantification of facilitators to accelerate uptake of cognitive pharmaceutical services (CPS) in community pharmacy." [Report]



'05

"Practice change in community Pharmacy: the implementation of cognitive services." [PhD Thesis]



'05

"The Shape of Our Future: Change Management and Community Pharmacy." [Report]



**Policy uptake: incorporated into all professional programs and services in the
4th Community Pharmacy Agreement (2005-10)**



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“Practice Change in Community Pharmacy: the Implementation of Cognitive Services

Alison S. Roberts
Doctoral Thesis 2005

			analysis
Qualitative Study		pharmacy assistants	C analysis ivo software for data management
Quantitative Study	<ul style="list-style-type: none"> • To quantify facilitators and values • To identify pharmacies’ adopter categories • To investigate relationships between: <ul style="list-style-type: none"> – facilitators & individual characteristics – values & individual characteristics – adopter category & pharmacy characteristics – adopter category & facilitators and values 	735 pharmacies, 1303 individual respondents	<ul style="list-style-type: none"> • Facilitators’ and values’ scales: Factor analysis • Adopter characteristics: Descriptive statistics



Null hypotheses

- That there are no significant correlations between the facilitator scores of the respondents and their values scores
- That there are no significant differences in facilitator scores or values scores between:
 - the age categories of respondents
 - the roles of respondents
 - the accreditation status of pharmacists
- That there are no significant differences between adopter categories according to:
 - the number of full-time equivalent pharmacists
 - the number of full-time equivalent pharmacy assistants
 - annual financial turnover
 - pharmacy location
 - facilitator scores of respondents
 - values scores of respondents



Results: Facilitators

Factor	Facilitators	n	No. of items	Item loading range	Cronbach's α	% variance explained	Factor scale range	Factor scale mid-point	Median factor score
1	Relationship with doctors	1274	5	0.59-0.85	0.9	20.17	0.75-3.76	2.23	3.01
2	Remuneration	1261	6	0.52-0.74	0.82	8.46	0.64-3.22	1.93	2.47
3	Pharmacy layout	1260	5	0.52-0.79	0.81	6.16	0.64-3.19	1.92	2.45
4	Patient expectation	1280	4	0.52-0.85	0.82	4.38	0.71-3.53	2.12	2.25
5	Manpower/staff	1273	5	0.49-0.66	0.8	3.93	0.97-3.04	2.01	2.43
6	Communication/teamwork	1280	6	0.37-0.65	0.77	3.13	1.59-2.65	2.12	2.2
7	External support and assistance	1274	4	0.47-0.69	0.74	2.55	0.73-2.98	1.86	2.39

**Total Variance:
48.8%**



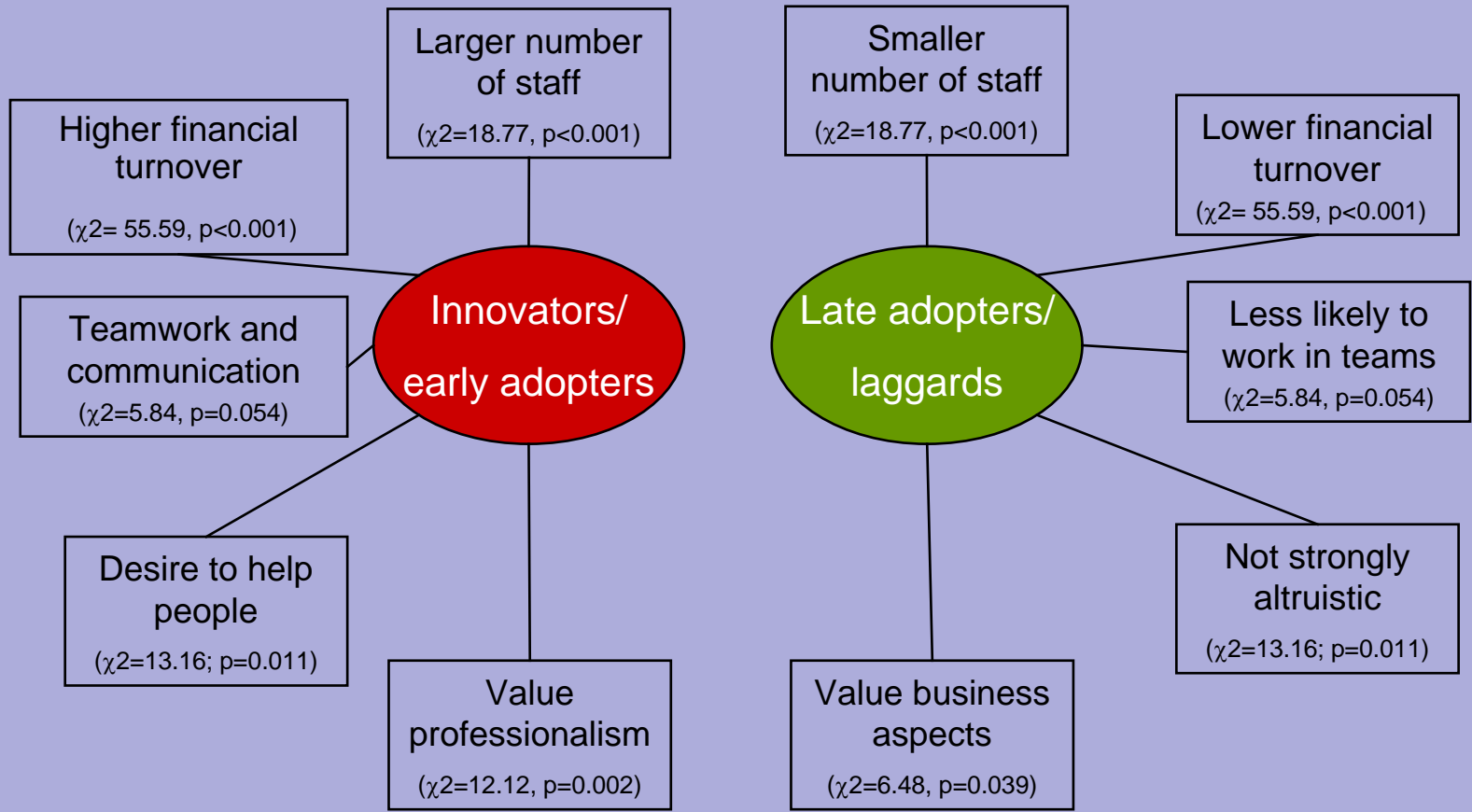
Results: Values

Factor	Values	n	No. of items	Item loading range	Cronbach's α	% variance explained	Factor scale range	Factor scale mid-point	Median factor score
1	Professionalism	1280	3	0.70-0.82	0.82	30.16	0.77-3.87	2.32	3.09
2	Altruism	1278	4	0.44-0.77	0.76	14.68	0.99-3.33	2.16	2.77
3	Business and job satisfaction	1276	3	0.60-0.87	0.78	8.89	0.74-3.71	2.23	2.56

Total Variance: 53.7%



Results: Adopter characteristics





Hypotheses

- That there are no significant correlations between the facilitator scores of the respondents and their values scores **REJECTED**
- That there are no significant differences in facilitator scores or values scores between:
 - the age categories of respondents **REJECTED**
 - the roles of respondents **REJECTED**
 - the accreditation status of pharmacists **REJECTED**
- That there are no significant differences between adopter categories according to:
 - the number of full-time equivalent pharmacists **REJECTED**
 - the number of full-time equivalent pharmacy assistants **REJECTED**
 - annual financial turnover **REJECTED**
 - pharmacy location **NOT REJECTED**
 - facilitator scores of respondents **REJECTED**
 - values scores of respondents **REJECTED**



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The Shape of our Future: Change Management & Community Pharmacy Project

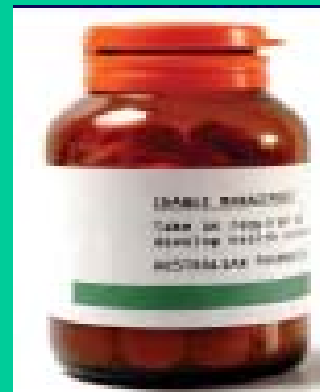
Dis Prof D.Dunphy¹

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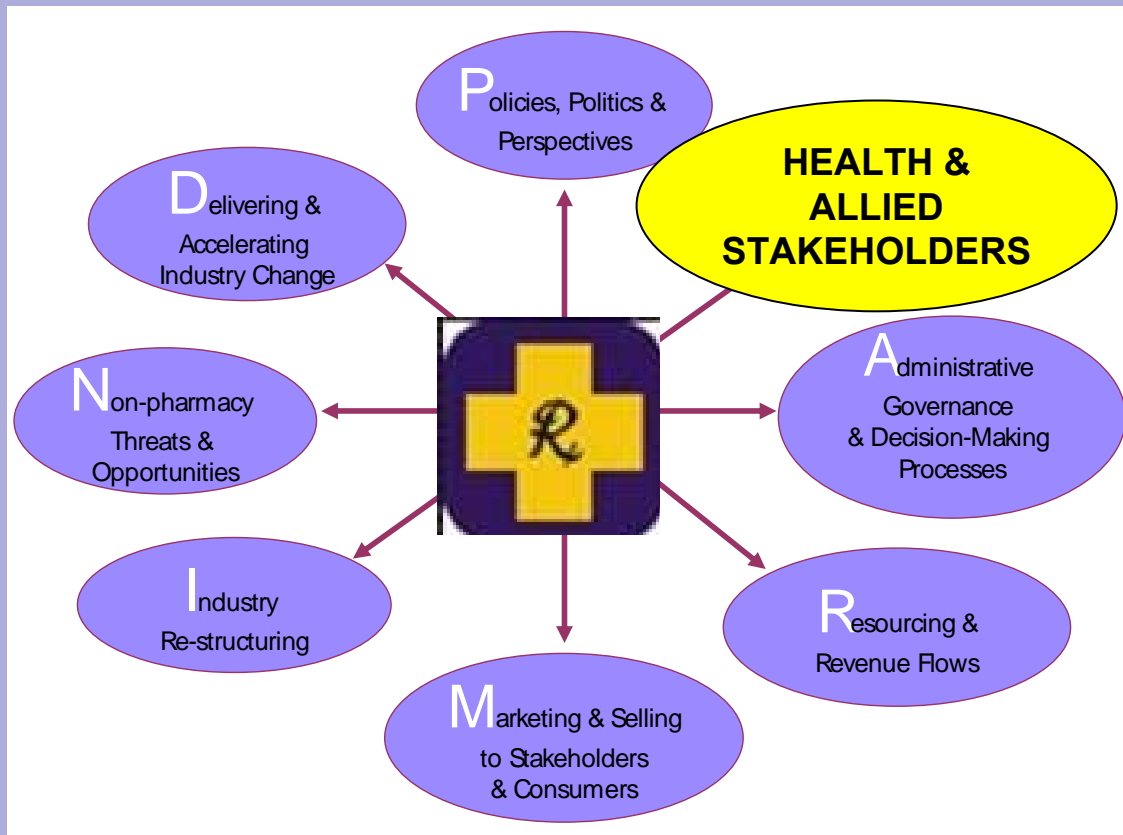
¹ The University of Technology, Sydney

² The University of Sydney

http://beta.guild.org.au/research/project_display.asp?id=273

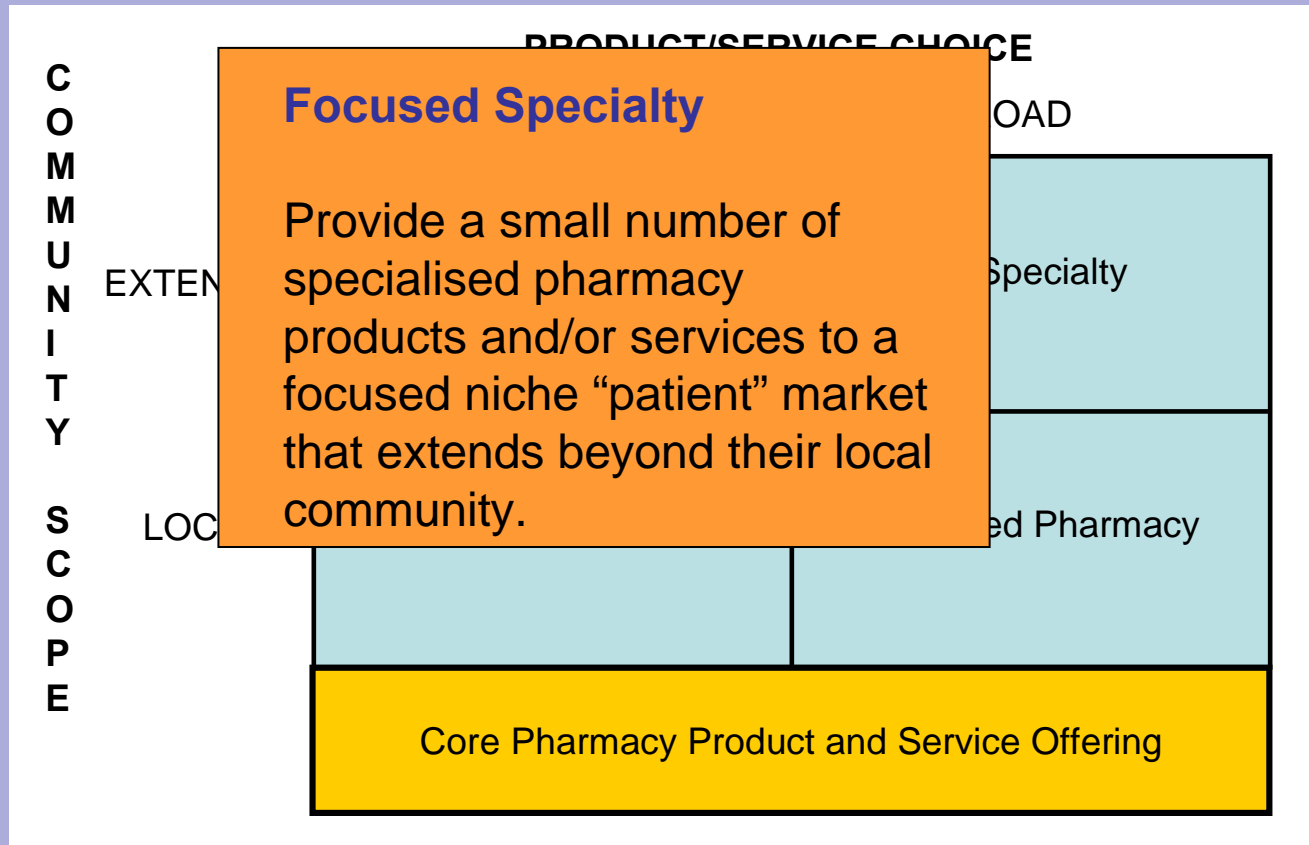


PHARMIND WHEEL



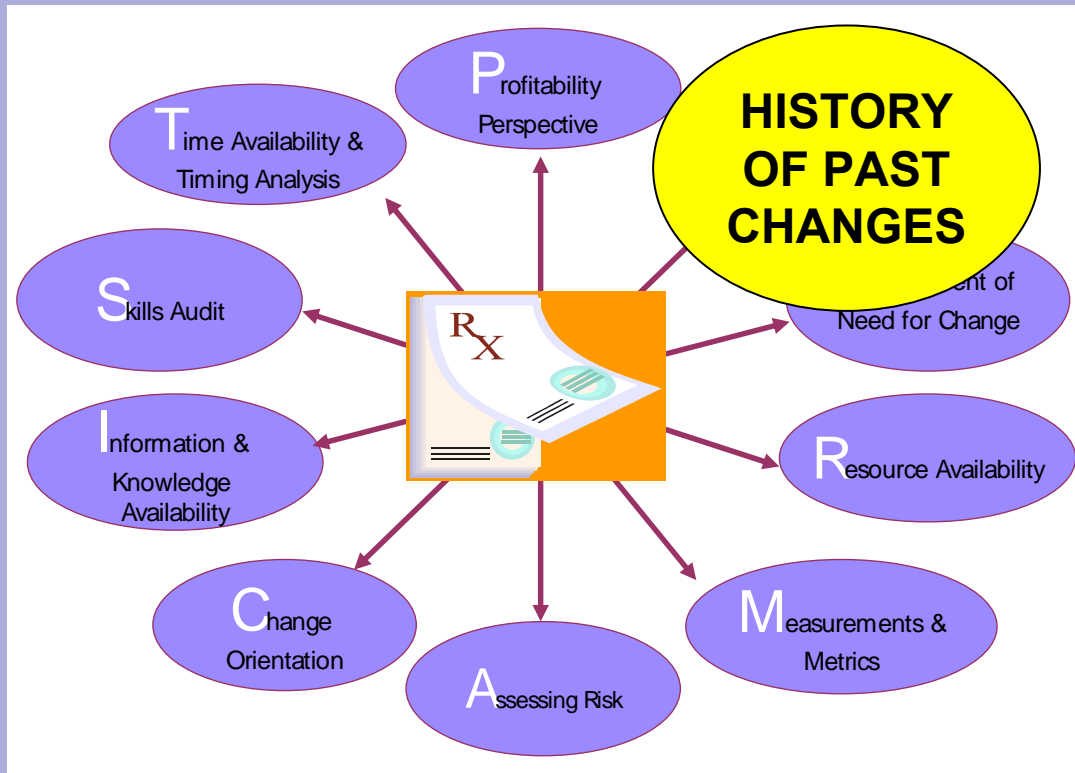


Pharmacy Viability Matrix



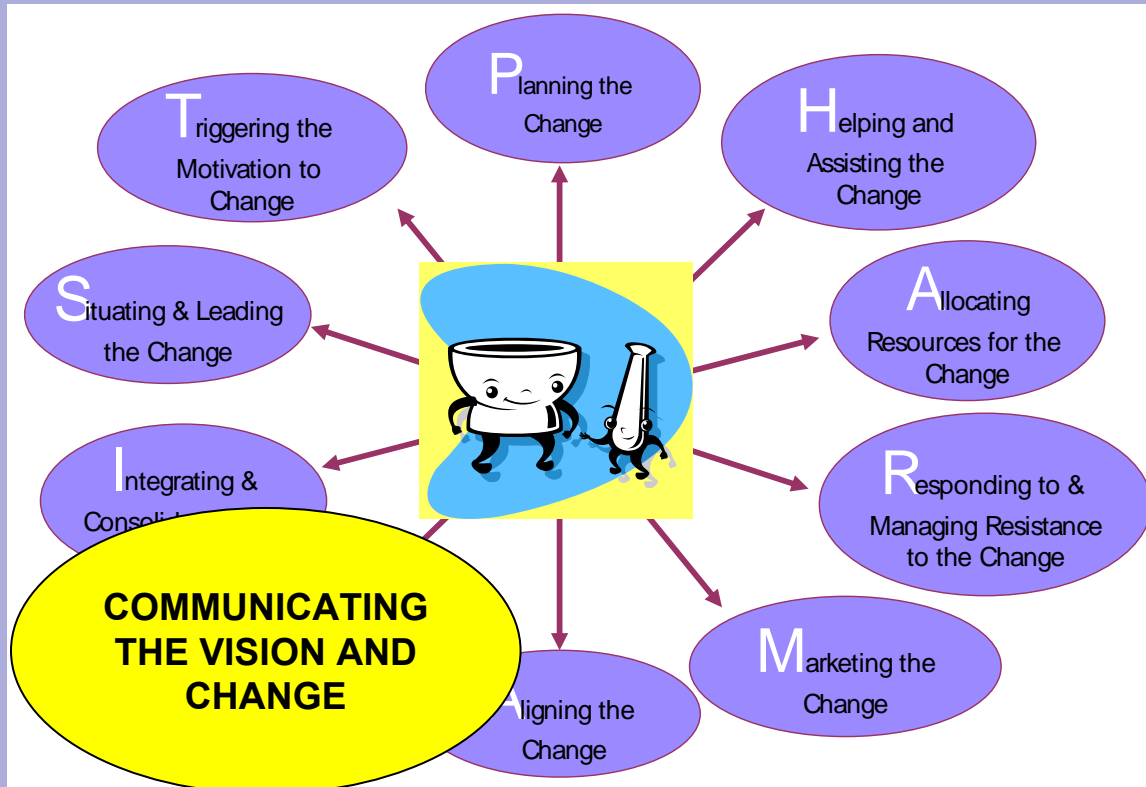


Pharmacist Change Readiness Wheel





Pharmacist Change Implementation Wheel



References: This wheel builds on and integrates material drawn from:

Kotter, John (1996) *Leading Change* Boston: Mass.; Harvard Business School Press
 Kanter, R.M, Stein, B.A & Jick, T.D. (1992) *The Challenge of Organization Change: How Companies Experience it and Leaders Guide it* New York: Free Press
 Nadler, D.A. (1998) *Champions of Change: How CEOs and their companies are mastering the skills of radical change* San Francisco: Jossey-Bass
 Pendleby, J, Grouard, B. and Meston, F. (1998) *The Ten Keys to Successful Change Management* England: John Wiley and Sons Ltd



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Conclusion

- Current research is on the first two levels
- A widespread and integrated approach to research is necessary: inclusion of business and professional aspects
- Future research into quality systems and business viability to provide the infrastructure for optimal and sustainable implementation

