

From snow ploughs to child obesity Overcoming challenges in the deployment of OR projects in the public sector

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Overcoming challenges in the deployment of OR Projects in the public sector

- Learning points from my early career in government OR and British Coal
- Community OR learning about user involvement and soft OR
- Addressing deployment issues with the Public Sector Scorecard
- What makes a good OR project?

Project 1: UK Department of Transport

- 18 month cost-benefit analysis of snow clearance and ice prevention on motorways
- Involved a simulation model of snow clearance for different snowfall scenarios, traffic flows, and snow clearance policies
- Produced 15 working papers discussed at monthly meetings with a steering group
- Result: staff agreed our assumptions as we went along, so felt committed to our recommendations
- Learning point: Ensure regular contact not just with client but a range of relevant stakeholders / experts

Project 2: Department of Health

- Comparison of treatments for acute myeloid leukaemia (AML)
- Close client and staff involvement throughout
- Research papers jointly written with clinicians
- Result: 'delighted collaborating clinicians since it made trials much easier to do and it wasn't too long before a major breakthrough was made in the treatment of AML'.

Prof Steve Gallivan at the 25 anniversary of the Clinical OR Unit

Learning point: Involve front-line staff

Project 3: British Coal

- Presenting the financial case for industry to convert from oil to coal
- Encouraged more junior staff to use our software and to champion our work in their area
- Result: Software used in every marketing region



Publicity for OR group on BBC TV.

Learning point: Close involvement with staff at all levels

Community OR Unit

Soon after I moved to Sheffield Business School, we were successful in our joint bid with Northern College to host the new national Community OR Unit

Gave me the opportunity to learn from several experts in problem structuring and in community OR

Learning points:

- 1. Involving, empowering and listening to service users was important in itself but also led to more successful deployment
- 2. Problem Structuring methods and soft OR were crucial in this process

Developing the Public Sector Scorecard

How can OR improve deployment in the public and third sectors

- Workshop-based approach involving staff, service users and other key stakeholders
- Get involved in strategy, service improvement and performance measurement
- Look at outcomes, processes and capability
- Work across organisational boundaries
- Culture of improvement, innovation and learning

The Public Sector Scorecard

THREE PHASES

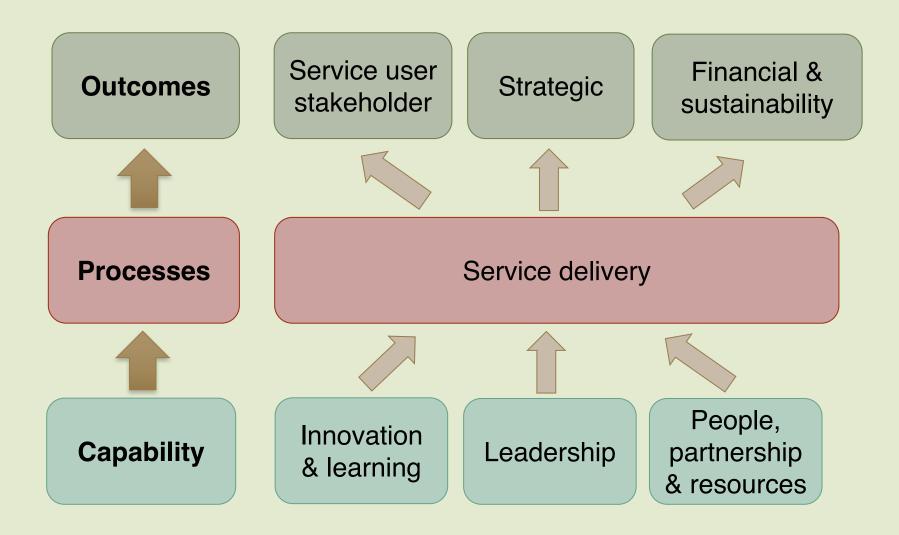
- 1. Strategy mapping
- 2. Service improvement
- 3. Performance measurement

The PSS is a workshop-based framework for the public and third sectors

"The PSS has moved performance management from a top-down, blinkered, blame-game approach to a system founded on inclusiveness, cooperation and understanding"

> Neil Robinson, Impact, OR Society

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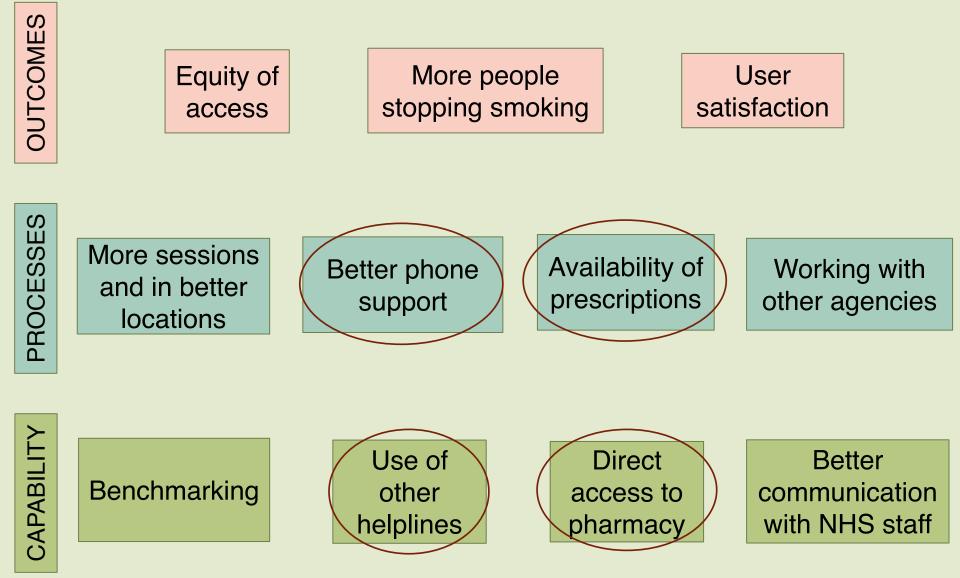


The Public Sector Scorecard

Using the Public Sector Scorecard for Sheffield NHS Stop Smoking Service

- Aim to improve the service and to develop performance measures which relate closely both to strategy and user views
- Started with three service user workshops over 100 attended
- Then six workshops with a reference group including senior managers, staff, 8 service users, doctors, midwives, and other stakeholders

Stop Smoking Service Strategy Map - excerpt



Results and Feedback

Numbers of people stopping smoking doubled during project and has stayed at that level ever since.

"The strategy map captures a useful strategic overview of the key interrelationships

Enabled a broad and balanced portfolio of measures that impact directly on the effectiveness and experience of service delivery"

> Charles Price, Director of Public Health (now Directorate General for Health and Consumers, European Commission)

Learning point: involving service users and stakeholders really works!

Using the PSS for Sheffield

- Three year £10 million programme aimed at reducing obesity in children and families
- Systems approach tackling obesity in several ways at once
- Strategy maps developed for each strand and the programme as a whole.
- Based on workshops with the programme board, strand leads, voluntary sector, parents, and Sheffield Youth Council
- Used a combination of the Public Sector Scorecard and the Theory of Planned behaviour

8 strands of work

Breastfeeding Friendly City

Living

Neighbourhoods





Parents as Positive Role Models



Healthy Open Spaces

Community Health Champions



Cross Sector Innovation











Social Marketing





strategy map

Reducing obesity in children & families

Satisfied stakeholders	Better diet & nutrition	Increased physical activity	Value for money & sustainability
Greater desire to adopt healthy lifestyle	Favourable attitudes of others	Confidence in ability to change	Overcoming barriers to change
Breastfeeding- friendly city	Community health champions	Schools at the heart of healthy communities	Healthy, safe, accessible, open spaces
Innovative new partnerships across all sectors	Effective social marketing	Parents as positive role models	Living neighbourhoods
Joint working SCC, NHS, third & private sectors	Community engagement	Shared vision	Effective project management

Leadership from programme board

Feedback

"The SLC4L Strategy Map visually told the story of SLC4L, what we were trying to achieve and how.

It helped all those involved understand the outcome and process measures the programme was trying to achieve, and therefore being evaluated against."

Carole Weir, SLC4L programme director

Learning point: address behavioural aspects

What makes a good OR project?

ls it ...

identifying the best solution to a problem
developing really good recommendations
writing a good report
an impressive presentation
or

assisting the client in implementing successful change



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ONLINE WORKSHOP ON THE PSS

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Organised by the Operational Research Society

Further information at www.publicsectorscorecard.co.uk

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Main References

- 1. Moullin, M. (2017) Improving and evaluating performance with the public sector scorecard", *International Journal of Productivity and Performance Management*, Vol. 66 Issue: 4, pp.442-458
- 2. Robinson, N. (2015) Developing strategy in the Public Sector, *Impact*, Issue 2, Autumn 2015, The Operational Research Society
- **3.** Moullin, M and Copeland, R (2013) Implementing and evaluating behaviour change programmes with the Public Sector Scorecard. *National Health Executive*, Jul-Aug 2013, pp.16-18
- Moullin, M, Soady, J, Skinner, J, Price, C, Cullen, J, Gilligan, C (2007) Using the Public Sector Scorecard in Public Health International Journal of Health Care Quality Assurance. 20:4
- 5. Moullin, M. (2002) *Delivering Excellence in Health and Social Care*. Open University Press. ISBN 0-335-20888-6

Earlier References

- 1. Moullin, M. (2015) My First Project. *OR Inside,* OR Society (Snow clearance project)
- 2. Jackson, RRP, Moullin, M et al. (1981) *Comparison of Clinical Trials in Acute Myelogenous Leukaemia by use of a Mathematical Model*. Springer, Berlin.
- **3.** Moullin, M. and Campbell, T. (1983) Decision support Systems for Colliery Planning. Paper presented at EURO Conference, Vienna.
- 4. Moullin, M (1985) Talk to OR Society Conference, Durham,
- 5. Moullin, M. (1991) Getting Planners to Take Notice. *OR Insight*, Vol.4, Issue, 1. OR Society