



Supporting careers and learning

Towards common standards for monitoring and evaluation in Europe

21 and 22 March 2022 Virtual event

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Lifelong guidance and welfare to work in Wales: linked return on investment methodology

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Session overview

- "Linked ROI": Six-step method to estimate ROI by connecting internal programme data to impact evidence from comparable third party research with a counterfactual
- Why? Growing funder/stakeholder pressure for economic impact estimates but (quasi-)experimental evidence often not appropriate/feasible for every programme
- Case study: Welfare-to-work in Wales (new five-year vision + political pressure): Worked example in a rapid project to identify a 1.6x fiscal ROI (likely underestimate)
- Wider organisational benefits: Promotes thinking about data/evidence gathering in structured way – on track to stronger ROI evidence in the future







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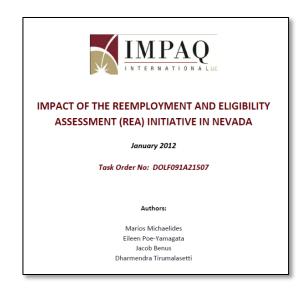
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Our motivation

Stakeholder/funder pressure



Great evidence exists, but costly to generate & operational challenges



The current anti-analytic review examined the effectiveness of breach interventions. A Meta-Analytic Review

Songqi Liu

Pennsylvania State University

Mo Wang

University of Florida

The current anti-analytic review examined the effectiveness of job seach interventions in facilitating job seach success (i.e., obtaining neuplymount), More than the properties of physical interventions in facilitating job seach success (i.e., obtaining neuplymount), Mog the metallic properties on job seach interventions, including behavioral learning theory, theory of planned behavior, social cognitive theory, and coping theory, were reviewed and integrated to derive a toxonomy of critical job seach intervention components. Summarizing the data from 47 experimentally or quais-experimentally perclaimed job seach intervention retreventions. Including teaching the properties of the planned policy of the participation of the properties of





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Linked ROI as a middle way?

Hypothetical ROI

 \rightarrow Linked ROI? \rightarrow

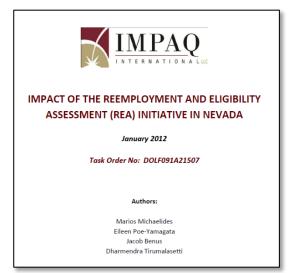
 \rightarrow

ROI from in-project RCT

Table 1 – Breakdown of Job and Learning Outcomes, Costs and Benefits of the National Careers Service.

	2016-2017	2017 - 2018 (Projected)	Predicted Change
Cost of Service	£5.6 million	£5.5 million	£62k Reduction
Number of Clients	57,321	54,280	5% Reduction
Entered Learning or Training	7,566	9,390	24% Increase
Entered sustained employment	9,917	9,934	0.2% Increase
Progressed in existing employment	688	652	5% Reduction
ROI ⁴⁰	£50.6 million	£50.6 million	
Lowest Attribution Rate before Costs > Fiscal Benefits	5.5%	5.5%	
Total 'knock-on' effects	£126.1 million	£126.4 million	£300k increase
Lowest Attribution Rate before Costs > Total Benefits	2.2%	2.2%	
	Effects of 24	% Funding Cuts	
o Cost			£1.38 million saving p annum
o Fiscal Benefits			£12.1 million fall per annum
Societal Benefits			£30.2 million fall per annum

?







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Linked ROI method overview

Estimated benefit NPV (partial)

Total cost NPV (complete)

= ROI multiplier (1x = breakeven)

Principles:

- Use already available data
- Favour fiscal ROI at first
- Acknowledge uncertainty (err conservative)
- Engage stakeholders
- Treat as ongoing process

Process:

- Step 1: Identify and prioritise impact strands
- Step 2: Identify total budget across activities
- Step 3: Data review to specify ROI calculation chain
- Step 4: Construct model with internal and external data
- Step 5: Document assumptions with conservative choices
- Step 6: Review, refine, and discuss implications







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Working Wales: Steps 1 & 2

Initial customer status	Distribution of 1:1 adviser time (Feb 19-Oct 20)
Not in paid work	67%
Unemployed	62%
Not available for EET	3%
Not ready to enter EET	1%
Voluntary work	0.4%
In work	21%
Key Stage 3-4	5%
FE	4%
Apprenticeship/Traineeship	2%
Sixth Form	1%
Other	1%

Step 1: Impact strand selection

- Unemployed adults getting back to work (c. 67% of clients)
- Only one benefit of several direct and indirect benefits that might come from supporting that client group
 → "partial benefit"

Step 2: Cost estimate

 Focus only on fiscal ROI so apply 67% of total organisational budget of £11m p.a. → £7.3m (top-down cost allocation method; bottom up ingredients model is an alternative)





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Working Wales: Step 3 Data review 1/2

Internal data: Distribution of IAG support to adults not in paid work (Feb 2019 - Oct 2020)

Total one-to-one support	Customer share (%)		Receiving 3rd party referral (%)	Receiving internal referral (%)	
Zero	9%	0	5%	4%	
Up to 30 mins	6%	10	11%	6%	
30-59 mins	16%	41	23%	22%	
1-2 hrs	41%	68	25%	32%	
2-3 hrs	16%	111	23%	50%	
3-5 hrs	9%	171	30%	56%	
5+ hrs	3%	334	37%	63%	





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Working Wales: Step 3 Data review 2/2

Third party evidence on comparable programmes

- Scopus English language search 2000-mid-2021, broad scan for any ROI related work in guidance/education
 → 3,993 articles
- Title/abstract relevance filter + Input from 7 sector experts to identify additional literature, especially grey literature
- Must result in an ROI/CBA estimate in the field of career guidance supporting unemployed adults
 → 11 articles (of which 9 are grey literature)
- Choose single closest fit to WW based on (i) activities involved in the intervention; (ii) scale/cost of the intervention;
 (iii) labour market context; and (iv) delivery provider type
 → RES/REA RCT in Nevada







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Working Wales: Step 4 Build model

Need to adjust WW data to better fit the type of programme evaluated in Nevada:

→ Assume zero benefit if 1:1 support was less than 30 minutes, assume 25% of benchmark impact if 30-59 mins

Translate impact conservatively into Welsh context

- → 3.1 week reduction in unemployment insurance claims → Apply to typical standard allowance for single persons aged 25 and older under universal credit, being set at £GBP 410 per month
- → 3% increase in earnings → Applied to GBP 20,000 annual gross salary (70% of the Wales full-time gross median salary in 2019) and 46% direct tax take on marginal increase in income

GBP 850 in direct fiscal return cashed over 2 years → £11.8m accrued per year of operation → Fiscal ROI 1.6x





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Working Wales: Step 5 Be cautious

Key conservative assumptions

- 1. No economic multiplier effects on economic activity (income tax and employer contributions only);
- 2. Tax take only applied for two 2 years post return to work on the marginal wage gain;
- 3. Any benefits for those receiving less than one 1 hour of one-to-one support are mostly treated as upside;
- 4. Any benefits to an individual or the State beyond leaving benefits and a marginal wage gain are excluded (e.g. improved resilience for future job uncertainty, mental wellbeing gains, spillover benefits for family)

However: key assumption of no displacement: Jobs gained are not at the expense of those who would otherwise go into similarly long-lasting unemployment.







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Working Wales: Step 6 Review 1/2

Key challenge	Implications / limitations conveyed to leadership
Holistic programme	Guidance on its own is rarely the only activity helping a person achieve their goals → Need to use counterfactual studies to drive an ROI
Diverse possible long- term benefits	Improved motivation, confidence, mental health, progress, "career success", → Anything we measure is only a partial picture
Diverse, often small scale work	Often highly tailored; typically few hours compared to overall education/work → Needs large, careful studies to identify effects (few studies have been funded)
Non-economic goals	Sometimes guidance should reduce (some) economic benefits – where it helps someone achieve other goals (stability, passion, balance, system-change etc.) → Important to treat fiscal ROI as only one input into prioritisation/decision-making
Changing practice	Studies are inevitably historical and local in coverage, esp. long-term outcomes Data can only ever be indicative for future impact of current practice and past research should be used conservatively to drive ROI assumptions

"Treat exact numbers as indicative and one input among several into evaluating a programme – part of an ongoing process of research and learning – and as conservative partial estimates, it is likely the full ROI is higher"



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Working Wales: Step 6 Review 2/2

- Welcomed by board and senior team, used in new five-year vision, and discussed with stakeholders
- Supported awareness of different nature of returns/ROI of school-age vs. adult interventions
- Identified options for better data collection and retention to support future research
- Prompted research exercise to expand scope of ROI for adults to incorporate wellbeing benefits, combined with an operational pilot for supporting practitioners to embed wellbeing more explicitly into their work
- Galvanised ambition to do more impact evidence building internally (formal government evaluation underway, review by inspectorate, and current research planning workshops underway)
- Important to be aware of limitations of ROI evidence in itself and as an input into policy making (one input among many, only captures some features of interest, comparability is challenging)







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Key limitations

- Third party study inexact match to WW programme (e.g. US context and compulsory)
- Limited literature scan
 (e.g. English language, limit to full ROI estimates only)
- WW programme and data based on early & partial roll-out (e.g. new programme in start-up phased then covid disruption, rest of referral framework not yet procured by government)
- Limited ability to cross-check findings with internal data (e.g. customer satisfaction data and partial outcome data support the ROI directionally)
- Rapid analysis scope (e.g. limited scope for robustness checks)







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Other ROI estimates?

Authors	Context	Example ROI
ICF International (2016)	US (Ohio) - training and supportive services to individuals interested in healthcare, manufacturing, or construction	0.3x (construction) – 3.2x (health) in 10 year fiscal ROI
Maibom, Rosholm, & Svarer (2012)	Denmark - one-to-one and groupwork interventions to support individuals to move from unemployment into work (experiment B)	2.9x in 2 year multi-aspect ROI
Oxford Economics (2008)	Northern Ireland – public employment service adult guidance provision	9.0x in fiscal ROI (low end 3.4x)
Fleissig (2014)	US (California) - one stop career centres (public employment centre)	6x-13x participant ROI
Hasluck, McKnight, & Elias (2000)	UK - A personal advice service to help lone parents to access jobs, training and other support services e.g. childcare.	0.9x in 2 year fiscal ROI

Note: Methodologies and counterfactual sources vary widely – studies need to be interrogated individually not directly compared

^{*} Studies simplified for table presentation; some address multiple interventions. Full details in the underlying papers.







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Appendix: ROI sensitivity table

		Proportion of relevant customer base in scope for average reduction in weeks unemployed					
		0%	20%	40%	60%	80%	100%
Reduction in v unemployed (as sole benefit; excl. increase)	0	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.10	0.20	0.30	0.40	0.50
	4	0.00	0.20	0.40	0.60	0.80	1.00
luction in the nemployed nefit; exclincrease)	6	0.00	0.30	0.60	0.90	1.20	1.50
weeks	8	0.00	0.40	0.80	1.20	1.60	2.01
	10	0.00	0.49	0.98	1.47	1.96	2.45



Thank you

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Reference: Percy, C. and Hughes, D. (2022). Lifelong guidance and welfare to work in Wales: linked return on investment methodology. In Cedefop et al. (2022). *Towards European standards for monitoring and evaluation of lifelong guidance systems and services (Vol. I)*. Luxembourg: Publications Office of the European Union. Cedefop working paper; No 9, pp. 109-138. http://data.europa.eu/doi/10.2801/422672

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Further webinar session planned on this topic via DMH Associates 2022 Webinar Series, May 2022.

