Energy Performance Certificate



£ 5.454

3, David Street, Cwmdare, ABERDARE, CF44 8UE

Estimated energy costs of dwelling for 3 years:

Date of certificate: 03 March 2014 Total floor area: 584-7022-0470-8046-9922

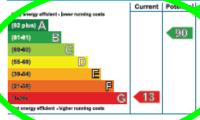
Use this document to:

- . Compare current ratings of properties to see which properties are more energy efficient
- Find out how you can save energy and money by installing improvement measures

Over 3 years you could	£ 4,299		
Estimated energy co	sts of this home		
	Current costs	Potential costs	Potential future savings
Lighting	£ 213 over 3 years	£ 105 over 3 years	
Heating	£ 3,906 over 3 years	£ 735 over 3 years	You could
Hot Water	£ 1,335 over 3 years	£ 315 over 3 years	save £ 4,290
Totals	D E AEA	P 1 1EE	over 3

These figures show how much the average household would spend in this property for health, highling and hot water. This excludes energy use for running appliances like TVs, computers and cook and any electricity generated by microgeneration.

Energy F#:y realing



The graph shows the current energy efficiency of your

The ligher the rating the lower your fuel bills are likely on the light of the ligh

The patential rating shows the effect of undertaking the page 3.

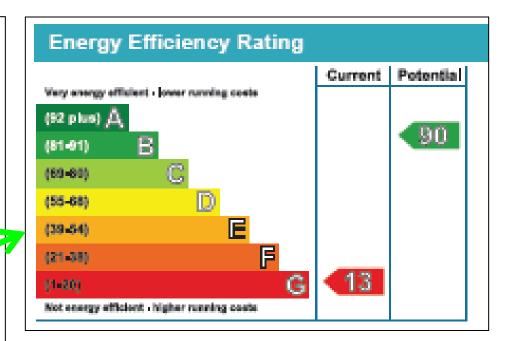
The average energy efficiency rating for a dwelling in Expland and Wales is band D (rating 60).

op active you can take to say money and make your home more efficient

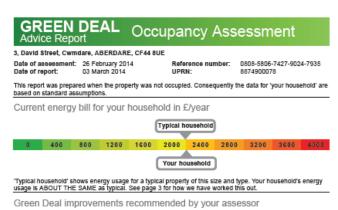
Recommended measures	Indicative cost	Typical savings over 3 years	Available with Green Deal
1 Increase loft Insulation to 270 mm	£100 - £350	€ 1,002	0
2 Internal or external wall insulation	£4,000 - £14,000	£ 980	O
3 Floor Insulation	£800 - £1,200	£ 186	O

See page 3 for a full list of recommendations for this property.

To find out more about the recommended measures and other actions you could take today to save money, visit www.direct.gov.uk/savingenergy or call 0300 123 1234 (standard national rate). The Green Deal may allow you to make your home warmer and cheaper to run at no up-front cost.



EPC based on RdSAP software with assumed U-Values provides a SAP rating of 13 points – within band 'G'



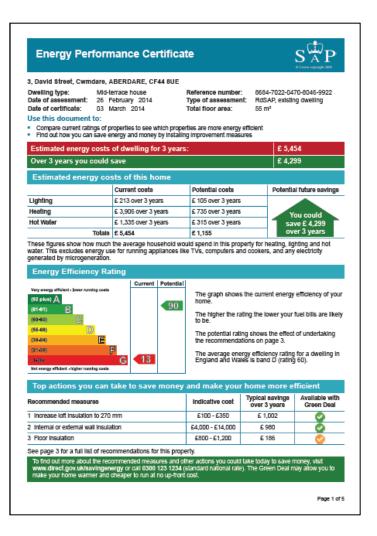
For the list of recommendations on your Energy Performance Certificate, turn to the last page.

Improvements	Estimated costs*	Your household's estimated annual savings	Typical annual savings - maximum Green Deal repayment in year 1**
Increase loft insulation to 270 mm	£100 - £350	£213	£217
External wall Insulation (100 mm) to 100% of stone wall	£4,000 - £14,000	£233	£238
Draught proofing	£80 - £120	£43	£43
Condensing gas boiler (1)	£3,000 - £7,000	£454	£461
Replace single glazed windows with low-E double glazing	£3,300 - £6,500	£47	£47
High performance external doors	£1,000	£9	£9
Total	£11,480 - £28,970	£1,000	£1,016
Electricity/gas/other fuel savings			£426 / £-248 / £837

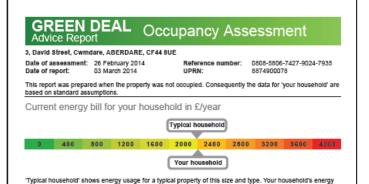
- Discounts available for qualifying homes see page 4.
- ** Repayments capped at this level providers could charge less.
- (f) Assumes that mains gas can be made available to the property. The cost of providing the gas supply needs to be ascertained.

Energy Performance Certificate 3, David Street, Cwmdare, ABERDARE, CF44 8UE Mid-terrace house Reference number: Date of assessment: 26 February 2014 Type of assessment: RdSAP, existing dwelling Date of certificate: 03 March 2014 Compare current ratings of properties to see which properties are more energy efficient Find out how you can save energy and money by installing improvement mea £ 5.454 Estimated energy costs of dwelling for 3 years: Over 3 years you could save £ 4,299 Estimated energy costs of this home Potential costs Potential future savings Current costs Lighting £ 213 over 3 years £ 105 over 3 years Heating £ 3,906 over 3 years £ 735 over 3 years You could Hot Water £ 1,335 over 3 years £ 315 over 3 years save £ 4,299 Totals £ 5.454 These figures show how much the average household would spend in this property for heating, lighting and hot water. This excludes energy use for running appliances like TVs, computers and cookers, and any electricity generated by microgeneration. **Energy Efficiency Rating** Current Potential Very energy efficient - Jover running costs The graph shows the current energy efficiency of your (92 plus) 🛕 90 The higher the rating the lower your fuel bills are likely The potential rating shows the effect of undertaking the recommendations on page 3. The average energy efficiency rating for a dwelling in England and Wales is band D (rating 60). Top actions you can take to save money and make your home more efficient Typical savings Available with Recommended measures Indicative cost over 3 years 1. Increase loft insulation to 270 mm £100 - £350 € 1,002 2 Internal or external wall insulation £4.000 - £14.000 £ 980 £800 - £1.200 See page 3 for a full list of recommendations for this property. To find out more about the recommended measures and other actions you could take today to save money, visit www.direct.gov.uk/savingenergy or cail 6300 123 1234 (standard national rate). The Green Deal may allow you to make your home warmer and otheaper to run at no up-fort octs. Page 1 of 5

Page 1 of 5



- 1. Lowest Band at G but could achieve Band B, but:
- 2. Are all recommended 'measures' suitable or achievable?
- 3. Doesn't take into account condition of the building and the impact of maintenance.
- 4. Base line data on performance is inaccurate so percentage of real improvement is impossible to ascertain.



Green Deal improvements recommended by your assessor

For the list of recommendations on your Energy Performance Certificate, turn to the last page.

usage is ABOUT THE SAME as typical. See page 3 for how we have worked this out.

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Increase loft insulation to 270 mm	£100 - £350	£213	£217
External wall Insulation (100 mm) to 100% of stone wall	£4,000 - £14,000	£233	£238
Draught proofing	£80 - £120	£43	£43
Condensing gas boiler ⁽¹⁾	£3,000 - £7,000	£454	£461
Replace single glazed windows with low-E double glazing	£3,300 - £6,500	£47	£47
High performance external doors	£1,000	£9	£9
Total	£11,480 - £28,970	£1,000	£1,016
Electricity/gas/other fuel savings			£426 / £-248 / £837

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- 1. Based on inaccurate EPC with potentially inaccurate predictions on improved energy performance.
- 2. Unreliable payback periods.
- 3. Unreliable £ savings.
- 4. Doesn't pick up other measures / works which would save energy and '£'s.

GREEN DEAL Occupancy Assessment

Improvements recommended on the EPC

Improvements	Estimated costs	Your household's estimated annual savings	Expected Green Deal repayment in year 1	Green Deal finance
Increase loft insulation to 270 mm	£100 - £350	£213	£217	0
Solar photovoltaic panels, 2.5 kWp	£9,000 - £14,000	£258	£258	Ø
Wind turbine	£1,500 - £4,000	£20	£20	②
Internal or external wall insulation	£4,000 - £14,000	£240	£245	②
Floor insulation	£800 - £1,200	£52	£53	②
Draught proofing	£80 - £120	£43	£44	②
Low energy lighting for all fixed outlets	£40	£24	£22	
Wood pellet stove with boiler and radiators	£7,000 - £13,000	£195	£184	②
Solar water heating	£4,000 - £6,000	£93	£90	②
Replace single glazed windows with low- E double glazing	£3,300 - £6,500	£95	£103	Ø
High performance external doors	£1,000	£17	£18	②
Total	£30,820 - £60,210	£1,250	£1,254	

Measure	Lowest cost	Highest cost	Estimated savings	Payback on lowest cost	Payback on highest cost
IWI/ EWI	£4,000	£14,000	£240	16.7 years	58.3 years
Draught proofing	£80	£120	£43	1.9 years	2.8 years
Double glazing	£3,300	£6,500	£103	32 years	63.1 years

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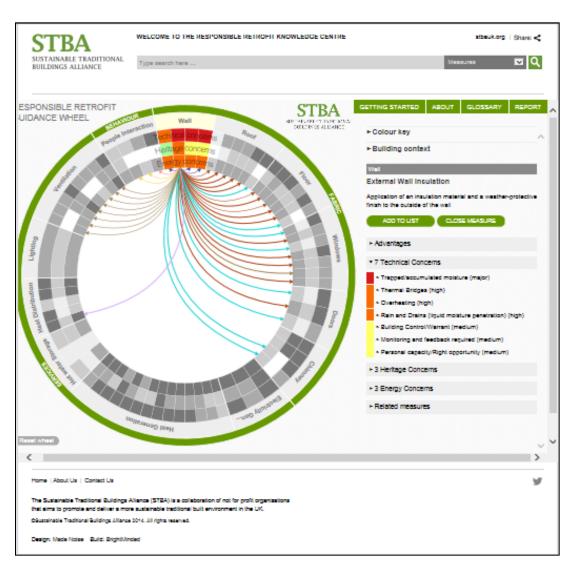
1. EWI / IWI – could be beneficial, <u>if aesthetics are understood</u> and there is sufficient understanding about technicalities and work is properly undertaken.

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- 2. Draught proofing very beneficial.
- 3. New double glazed windows consider alternatives.





STBA	WELCOME TO THE RESPONSIBLE RETROFIT KNOWLEDGE CENTRE	stbauk.org Sh		
SUSTAINABLE TRADITIONAL BUILDINGS ALLIANCE	Type search here		All Categories	
		GETTING STARTED	ABOUT GLOSSARY REPO	
Responsible Retrot	it Guidance Wheel Report Update report name	Pri	nt report Back to wheel	
Colour key				
Concerns Medium conce	rn High concern Major concern			
Measure to measure linkages	erence Airtightness Human Health/Fabric Health Heating issues	People issues Monito	ring and maintenance	

STBA Retrofit Guidance Tool

An aid to decision making and a way of learning about traditional building retrofit

- Single interface
- Explain technical issues to a wider public
- Highlight the risks of individual measures
- Show the links to other aspects of buildings
- Signpost relevant expert research

http://responsible-retrofit.org/wheel/ (freely available)

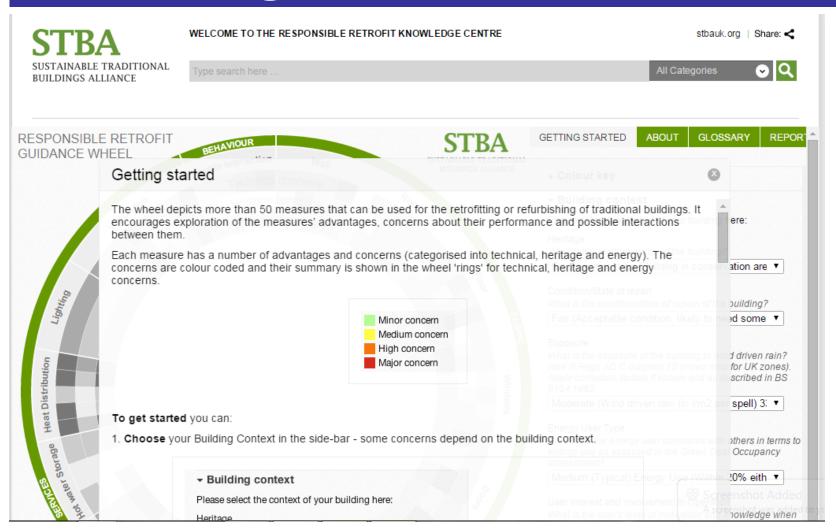
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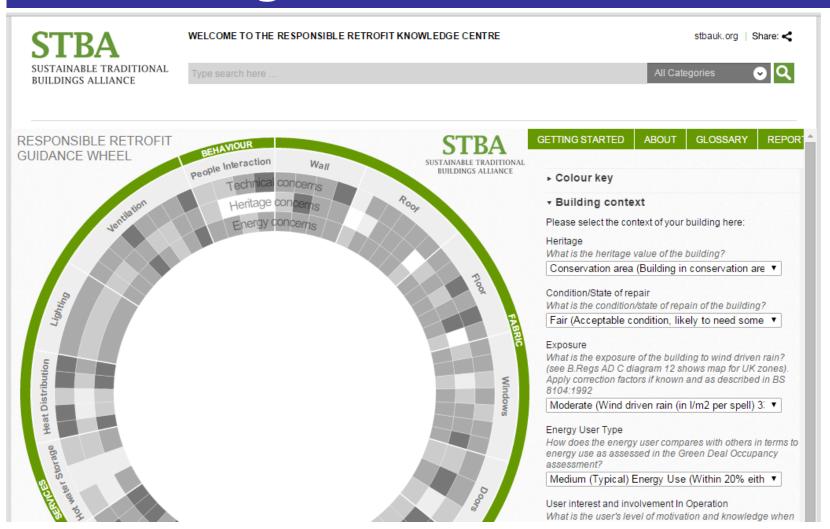
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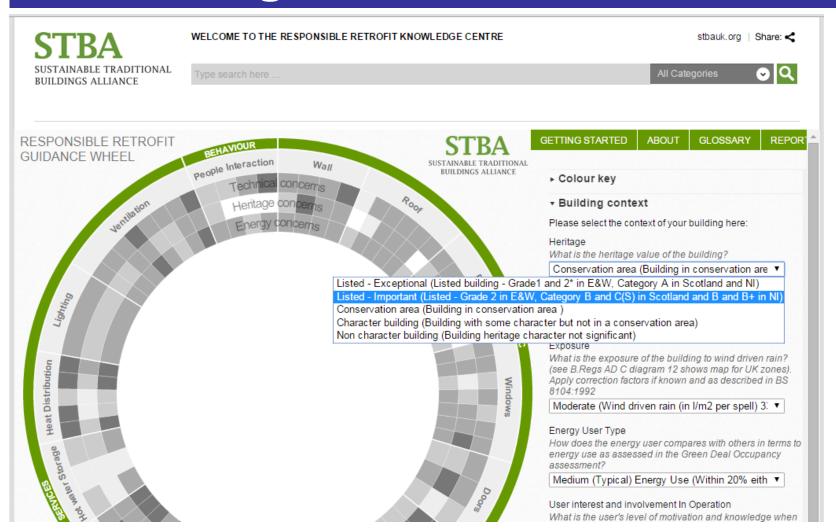
BUT no mention of BS 7913 and 'significance'



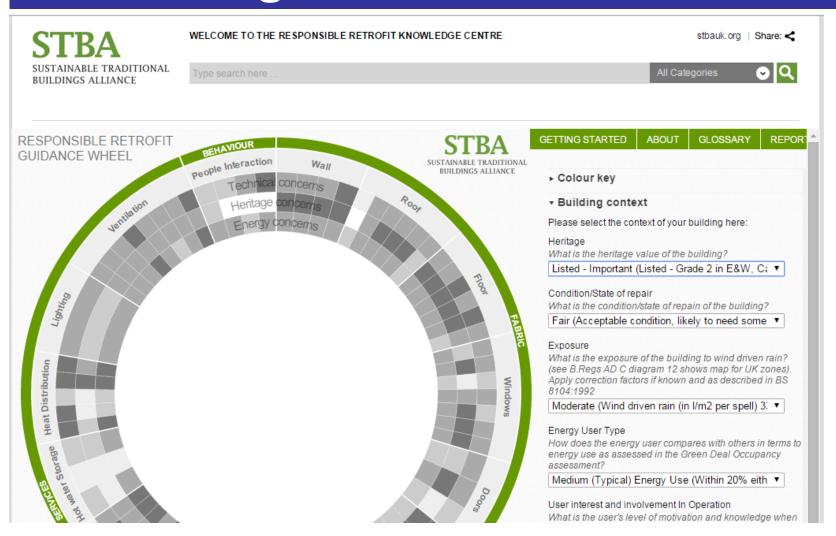
Stage 1 - Context setting



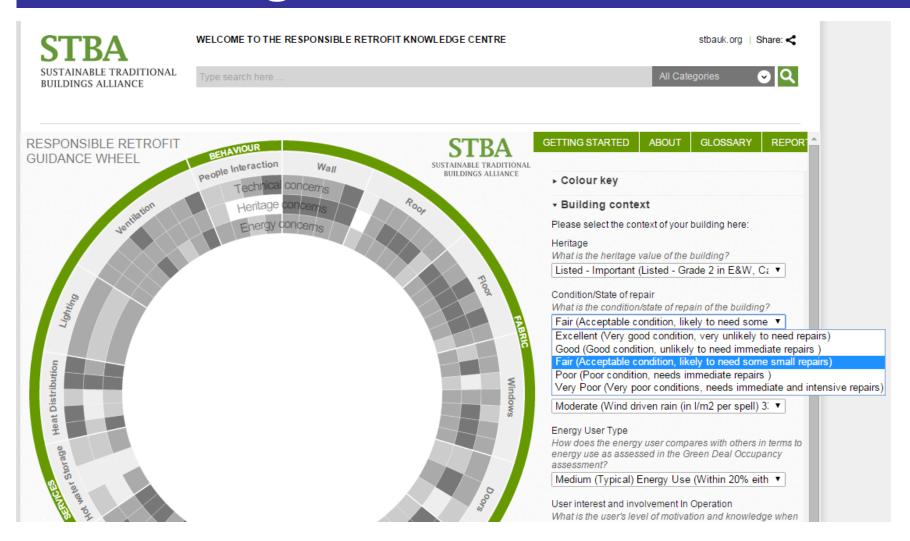
Stage 1 - Context setting



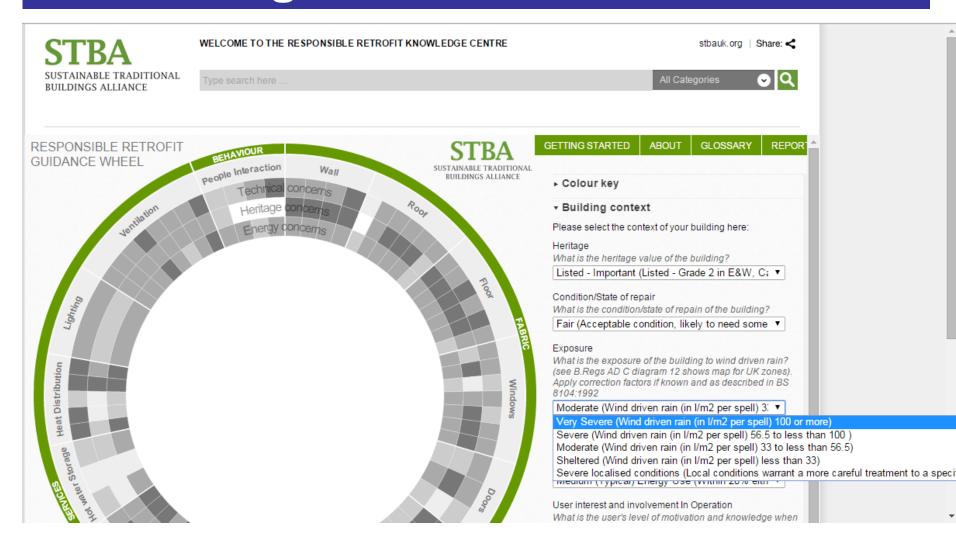
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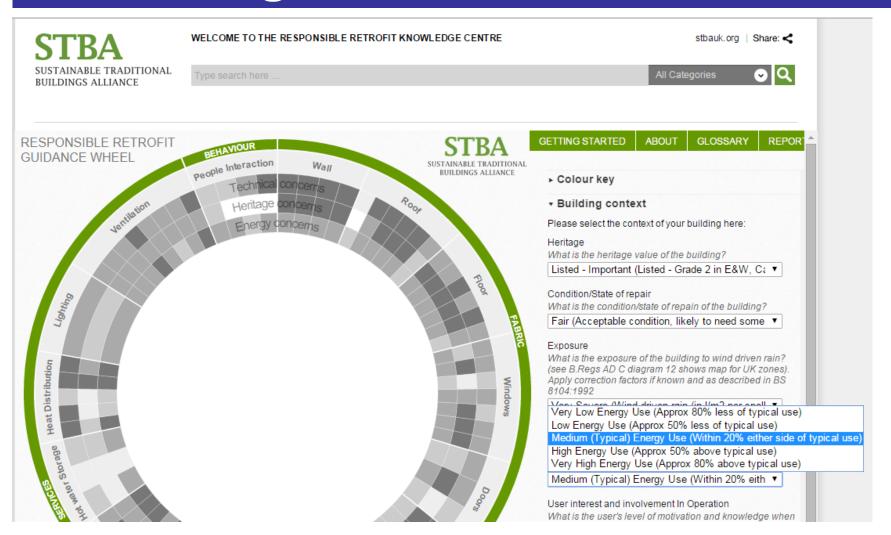
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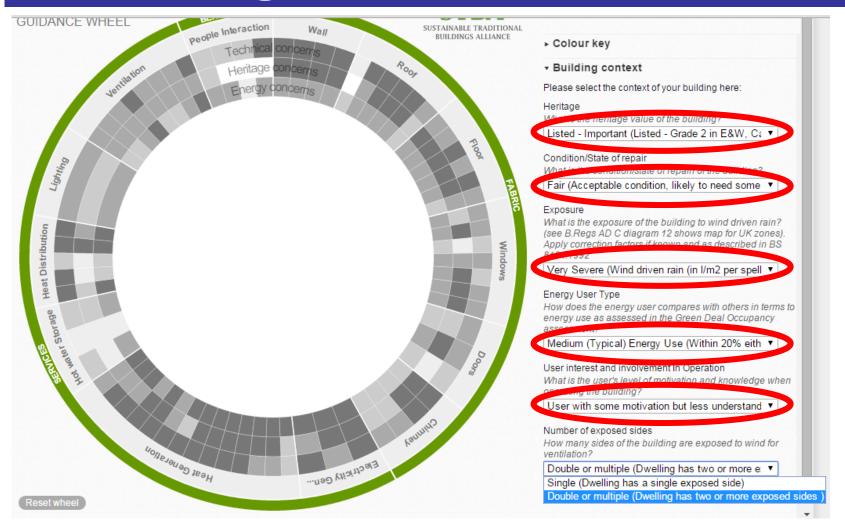
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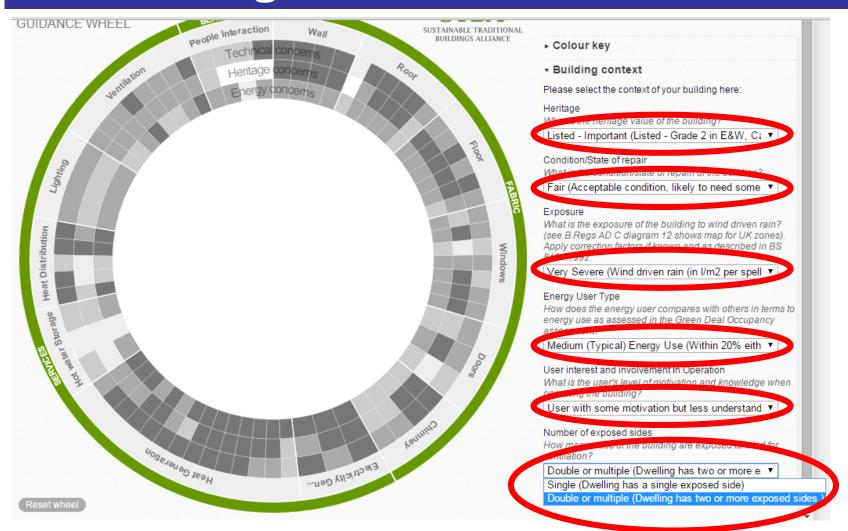
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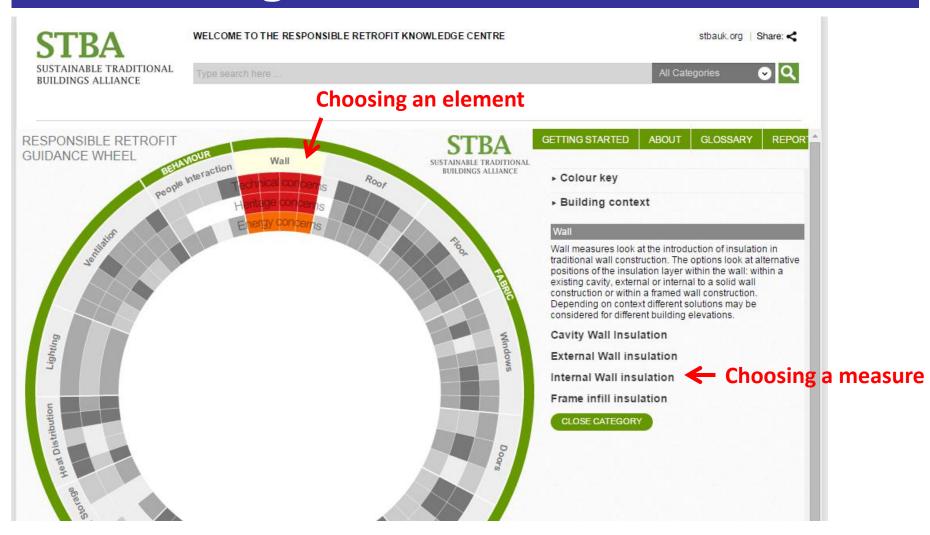
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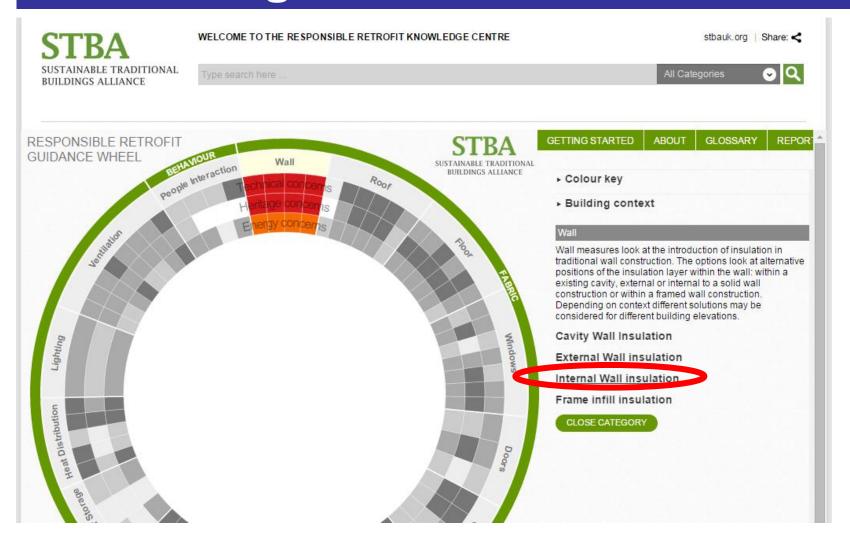
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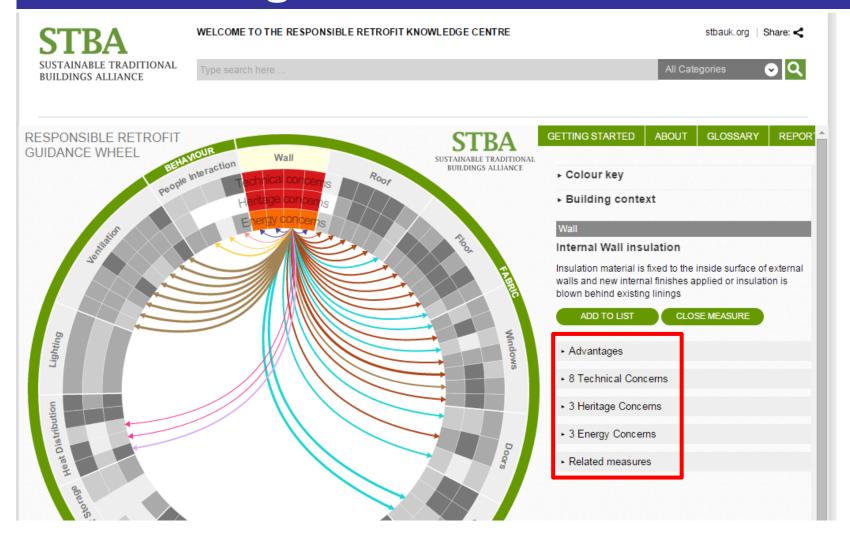


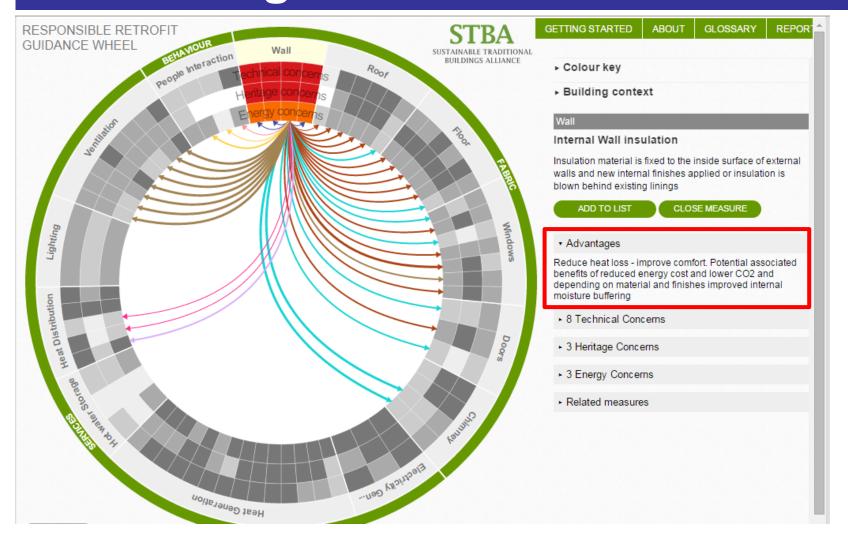
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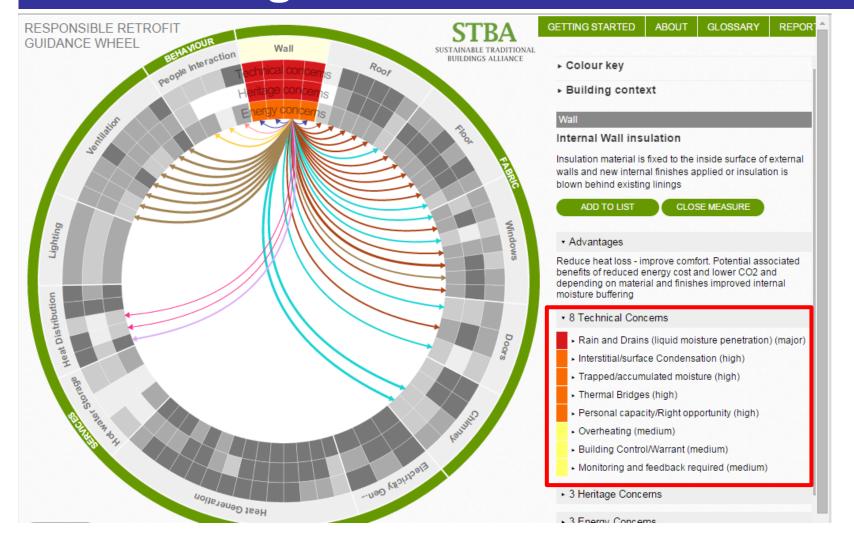


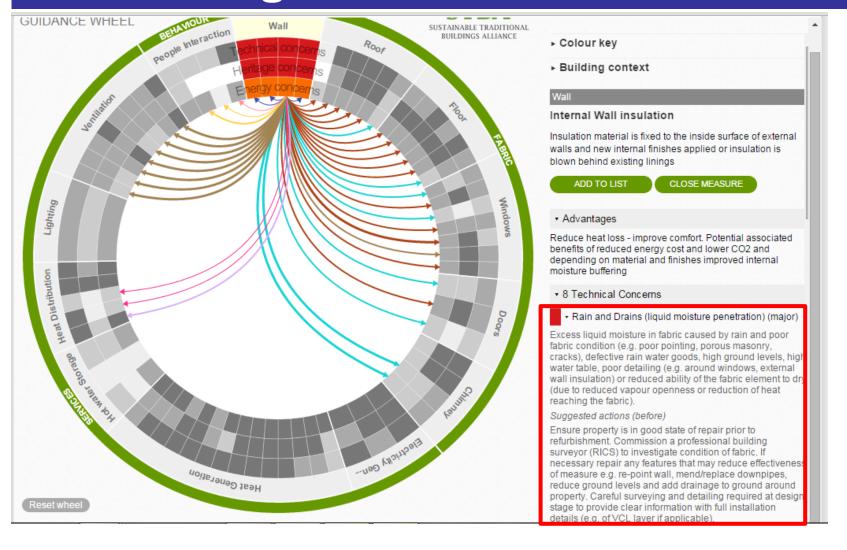
Stage 2 – Explore and Select Measures

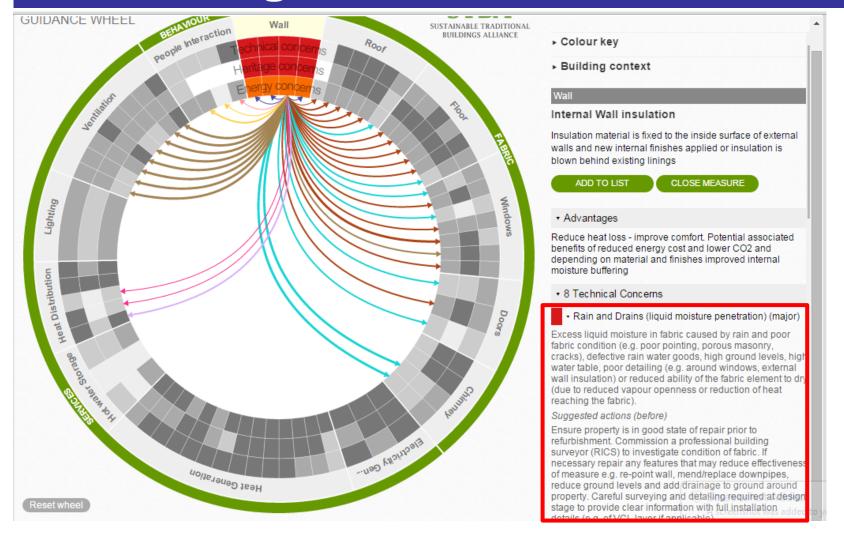


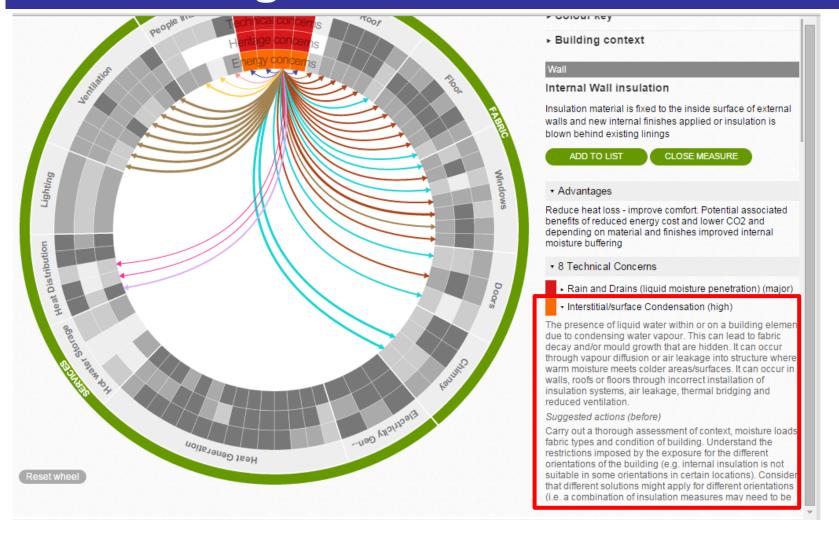


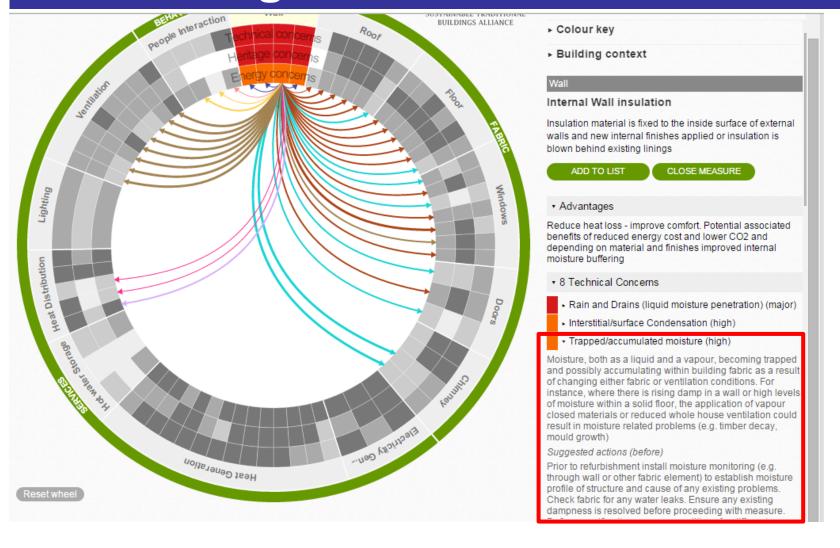


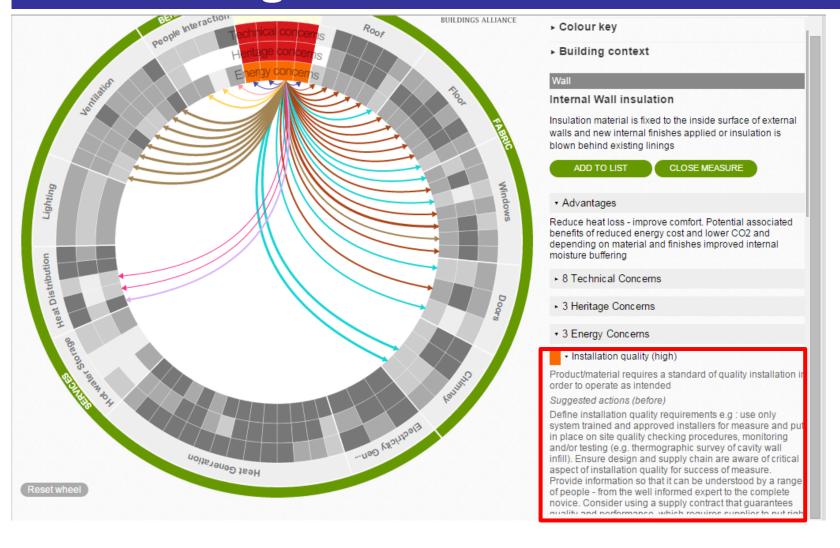


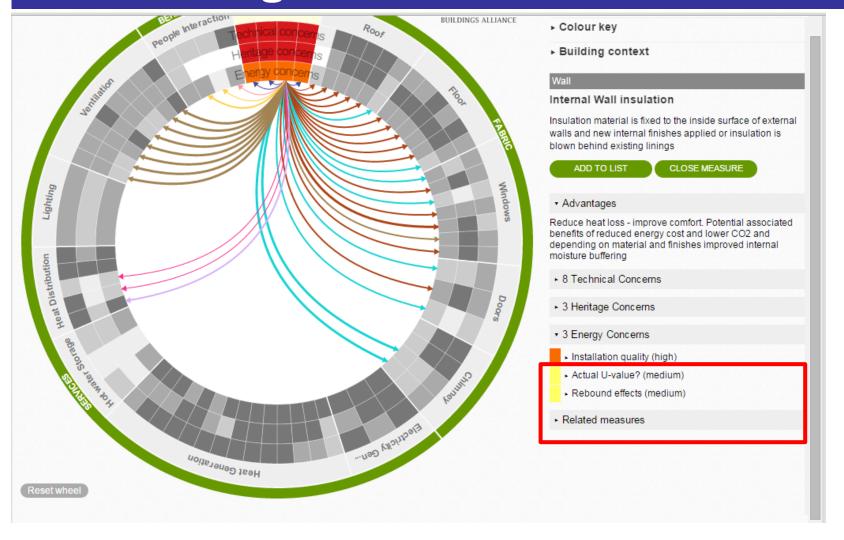


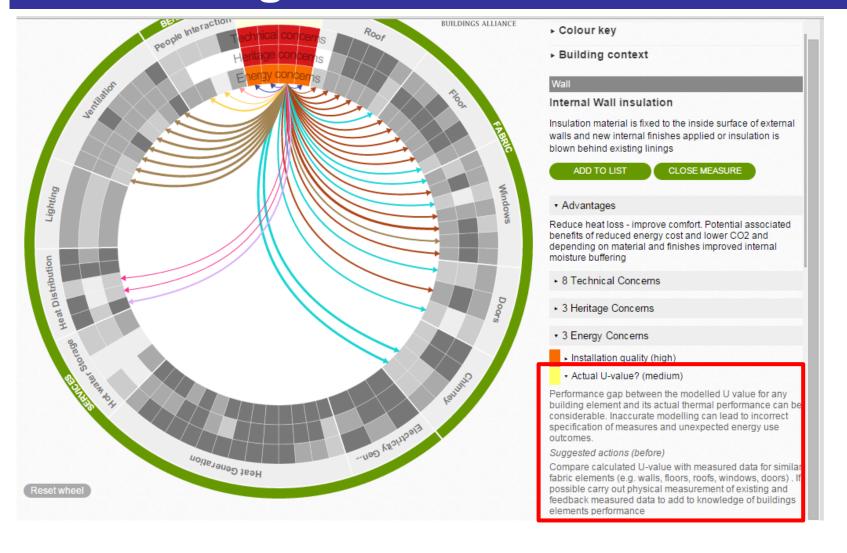


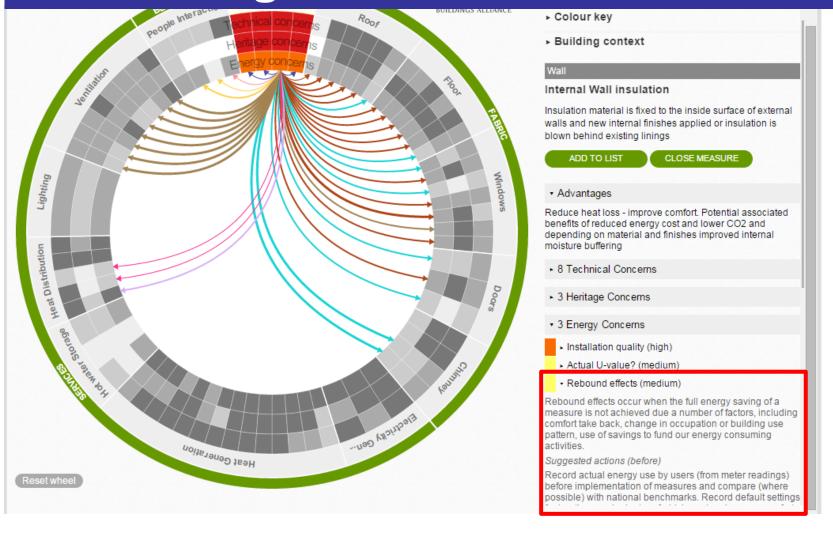


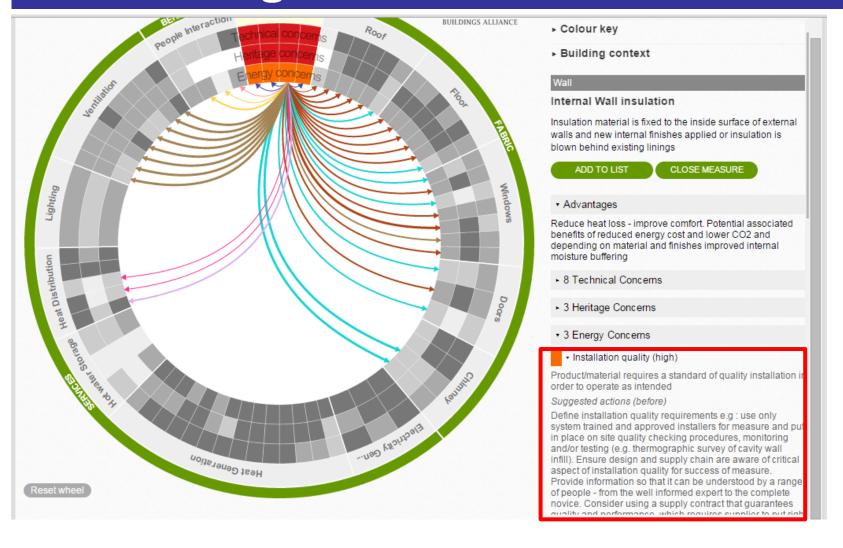


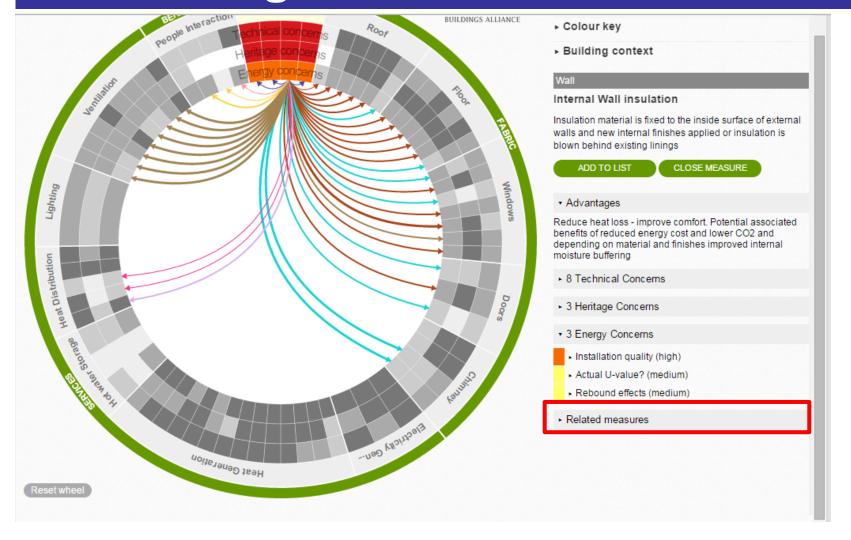


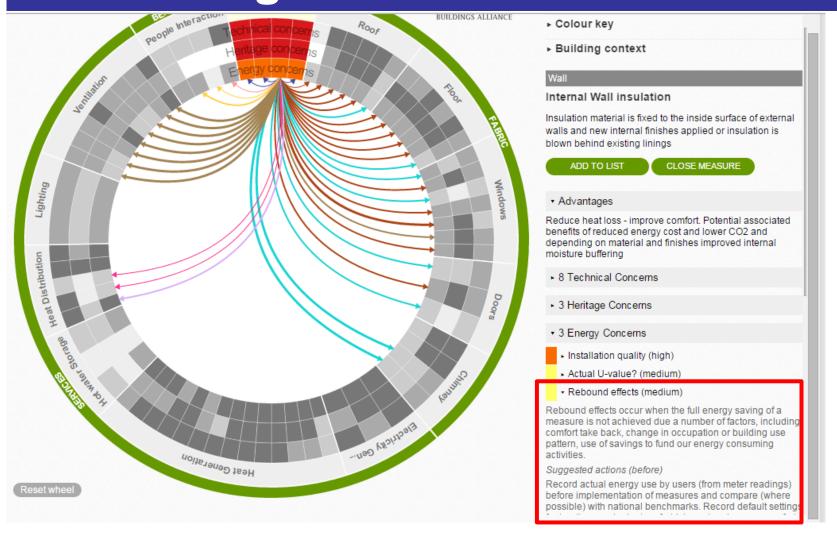


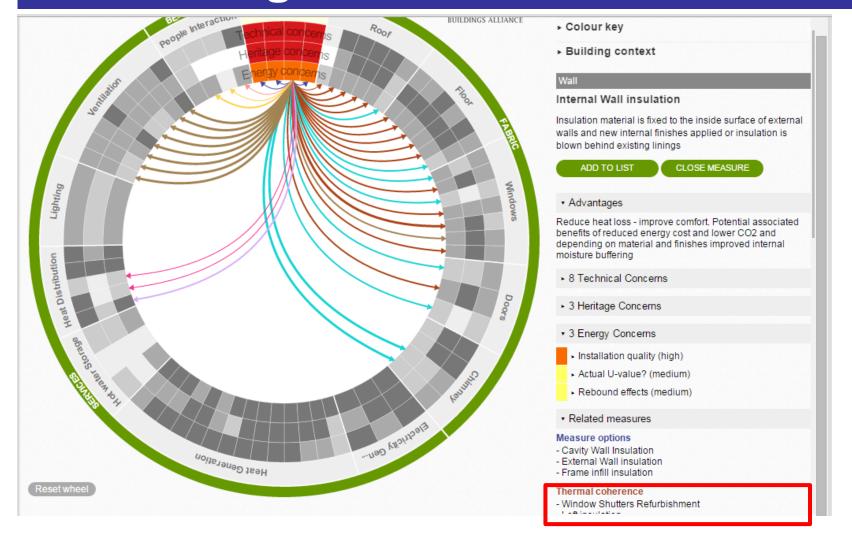


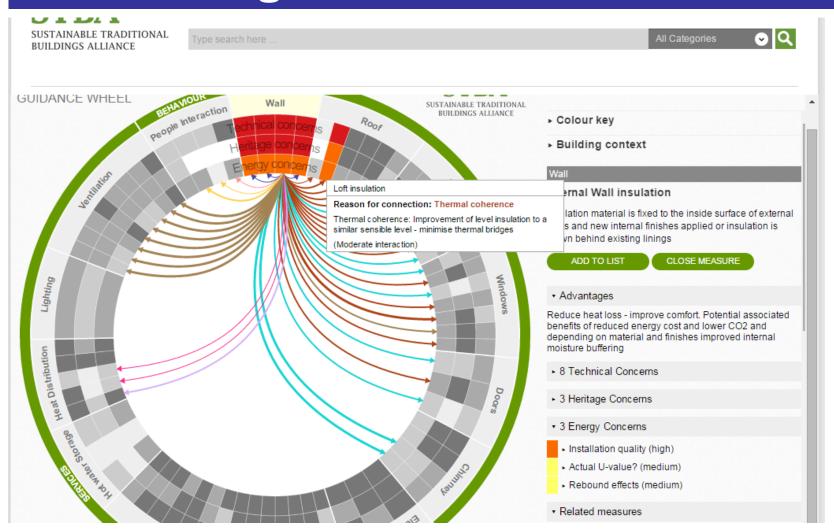




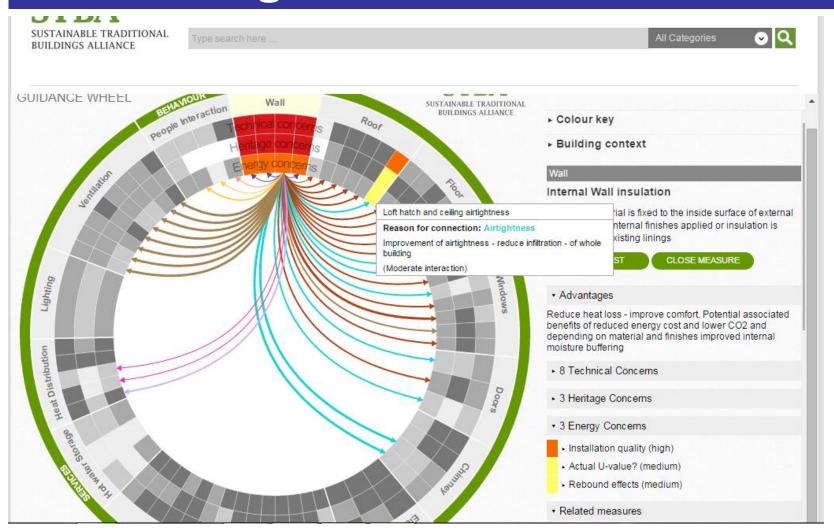




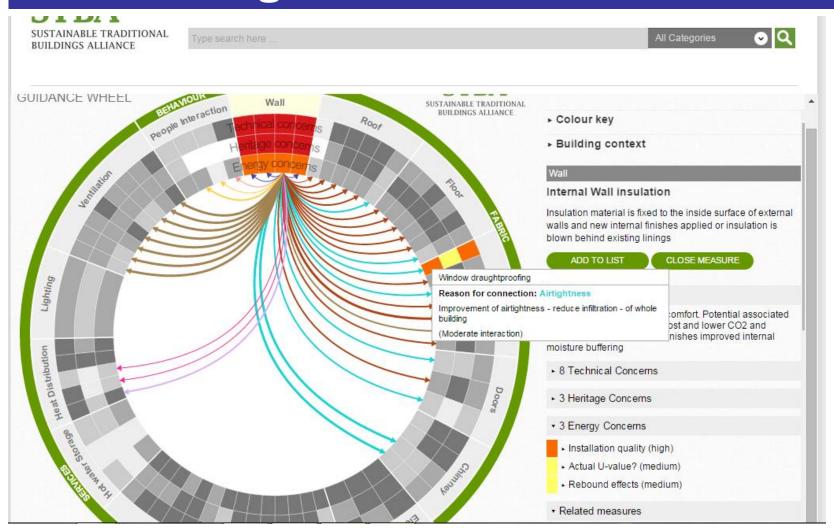




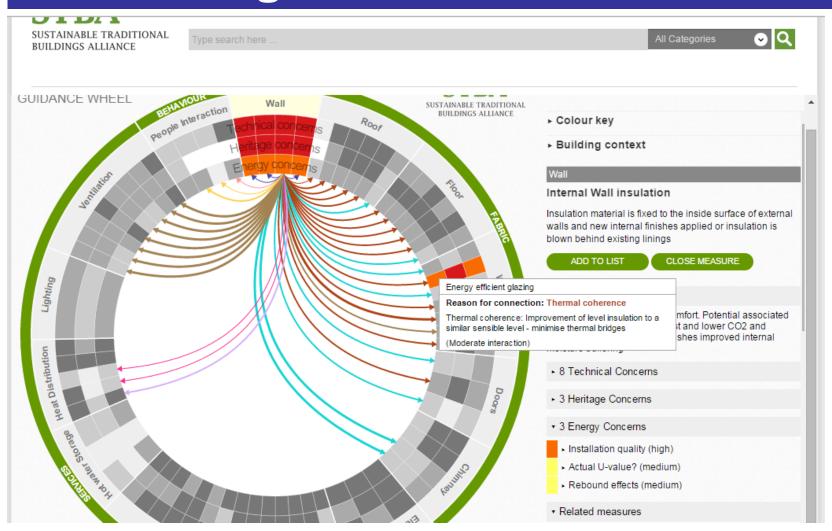
Stage 3 - Explore links



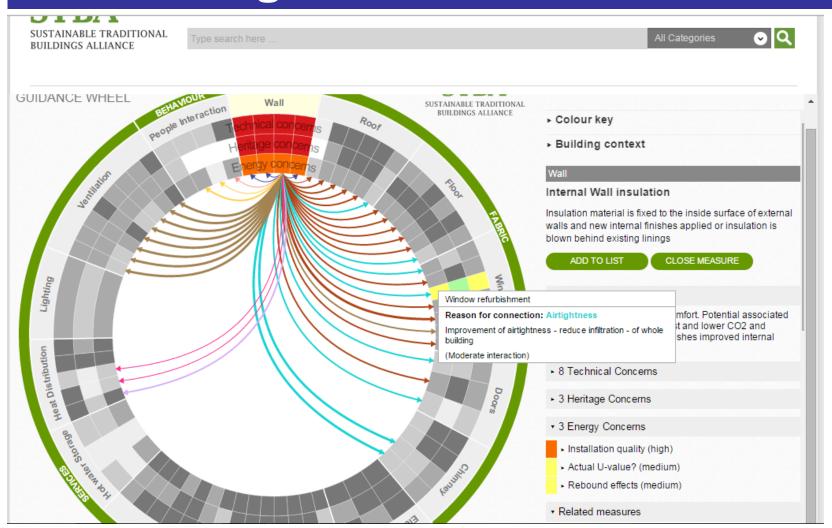
Stage 3 - Explore links



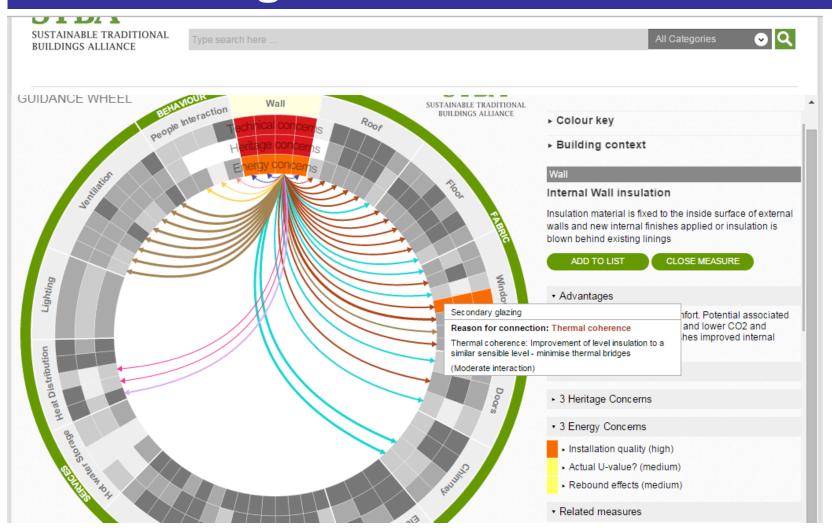
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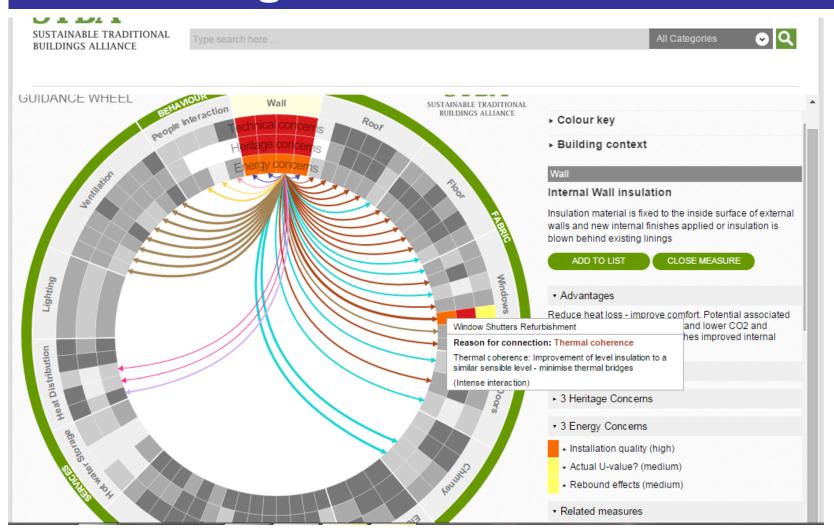
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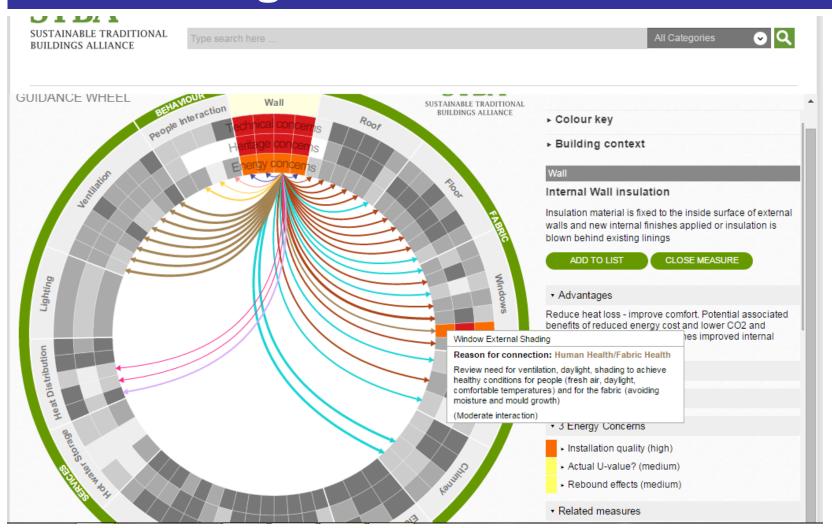
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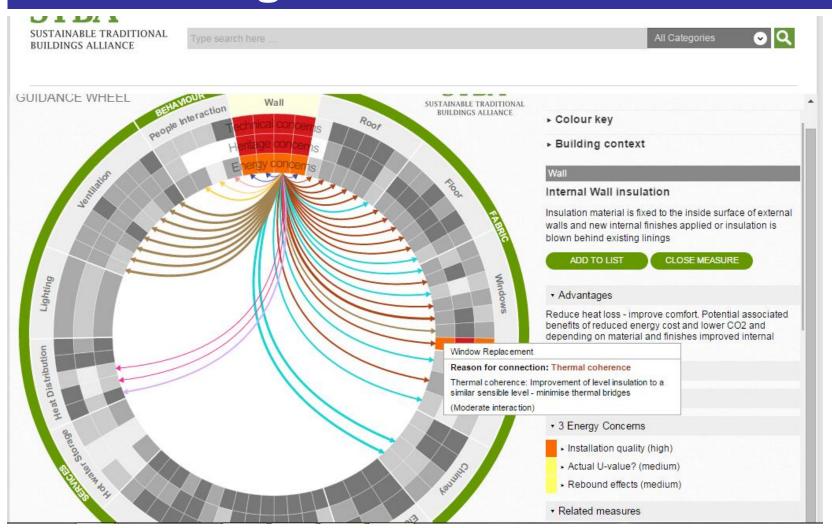
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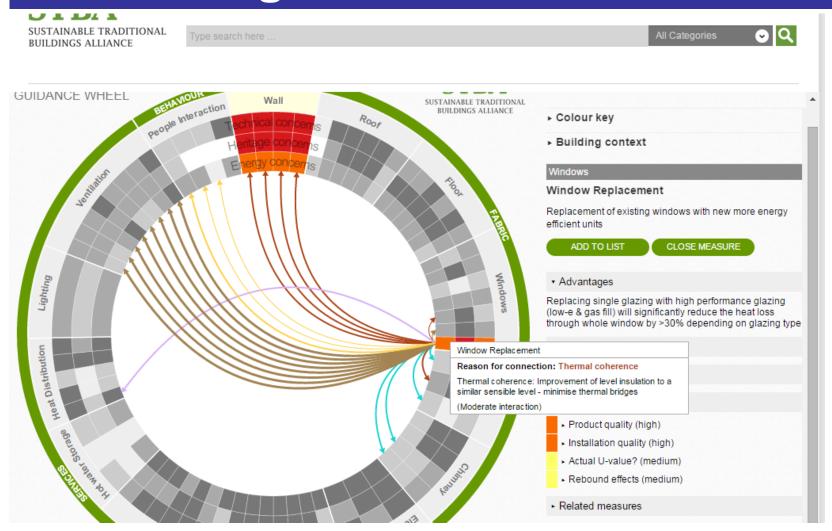
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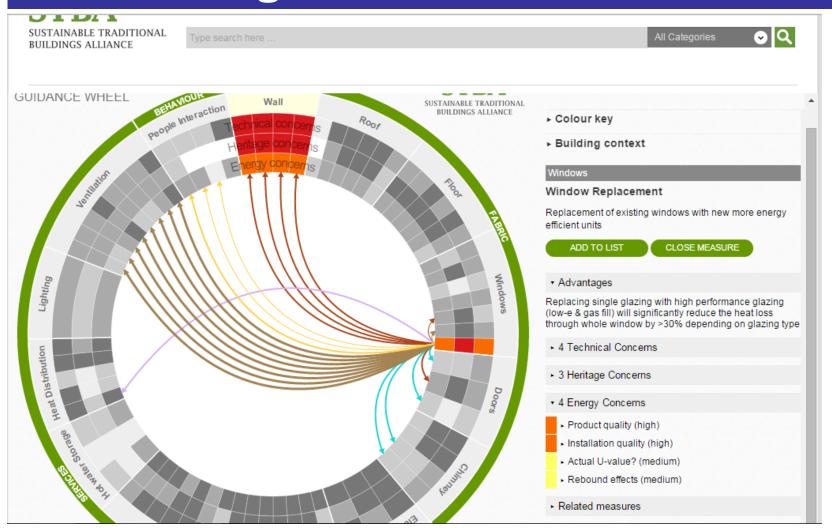
Stage 3 - Explore links



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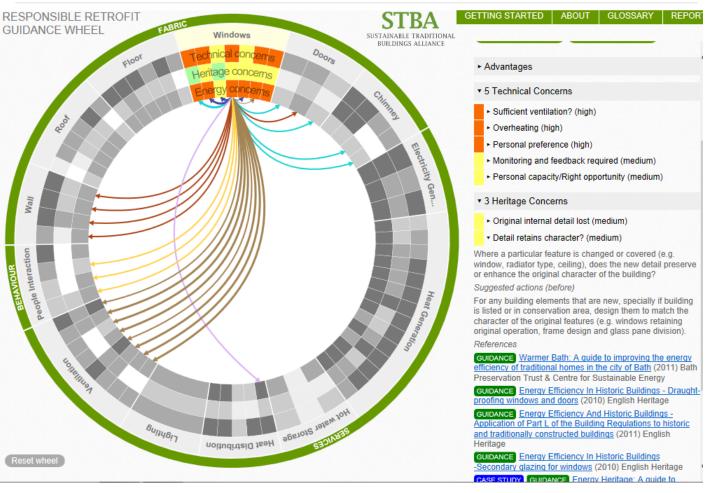


Stage 3 - Explore links



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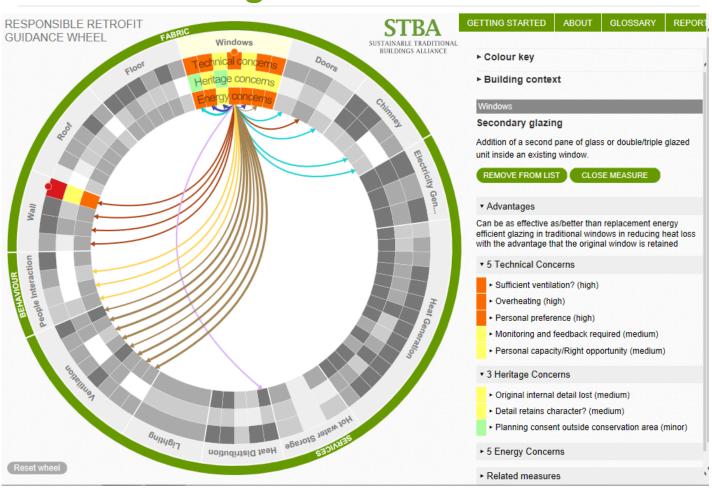
Stage 4 – Actions and References



Find our more detail: open each concern tab to look up definition of concern, actions before, during and after retrofit to minimise risk.

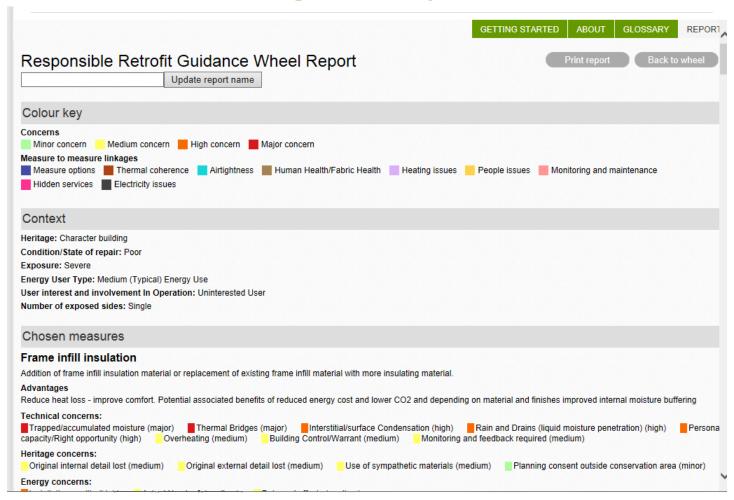
Relevant references are listed

Stage 5 - Select measures



Select measures: choose the measures you are interested in by clicking the add to list button

Stage 6 - Report



Report: click the report tab to view a report of the chosen measures. Give a name to the report and print it out