

BCIS[®]

Measuring Whole Life Carbon in the Built Environment

Part 2: The Data


James Fiske

February 2023



RECAP – Part 1 – Available on BCIS.co.uk


RICS professional statement



RICS professional standards and guidance, UK

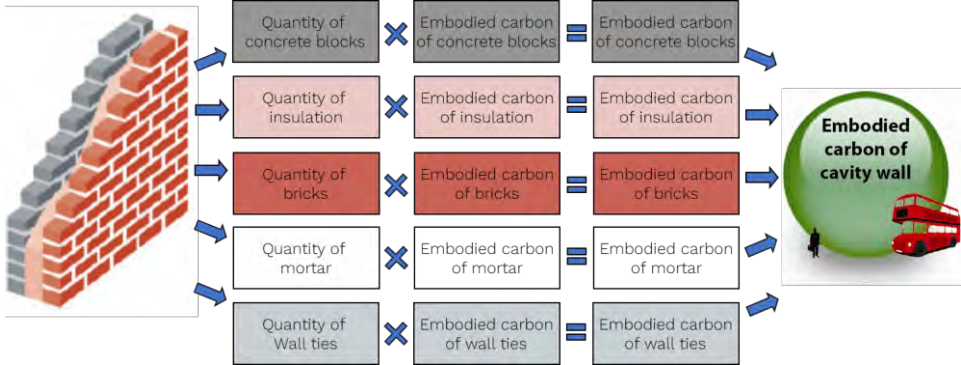
Whole life carbon assessment for the built environment

1st edition, November, 2017



rics.org/guidance

WHOLE LIFE CARBON ASSESSMENT INFORMATION															
PROJECT LIFE CYCLE INFORMATION												SUPPLEMENTARY INFORMATION BEYOND THE PROJECT LIFE CYCLE			
[A1 – A3]			[A4 – A5]		[B1 – B7]					[C1 – C4]					
PRODUCT stage			CONSTRUCTION PROCESS stage		USE stage					END OF LIFE stage					
[A1]	[A2]	[A3]	[A4]	[A5]	[B1]	[B2]	[B3]	[B4]	[B5]	[C1]	[C2]	[C3]	[C4]		
Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use	Maintenance	Repair	Replacement	Rel refurbishment	Deconstruction Demolition	Transport to disposal facility	Waste processing for reuse, recovery or recycling	Disposal		
					[B6] Operational energy use										
					[B7] Operational water use										
												[D]			
												Benefits and loads beyond the system boundary			
												Reuse Recovery Recycling potential			

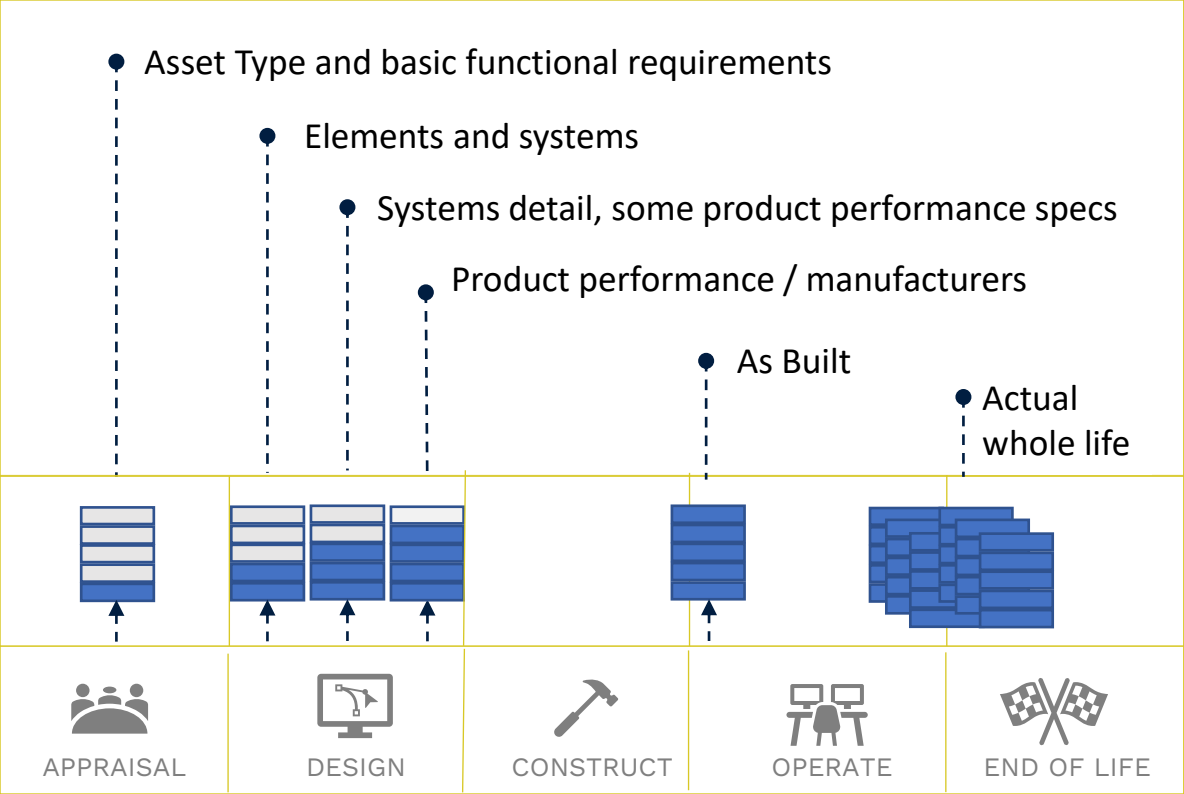


THE CARBON DATA CHALLENGE

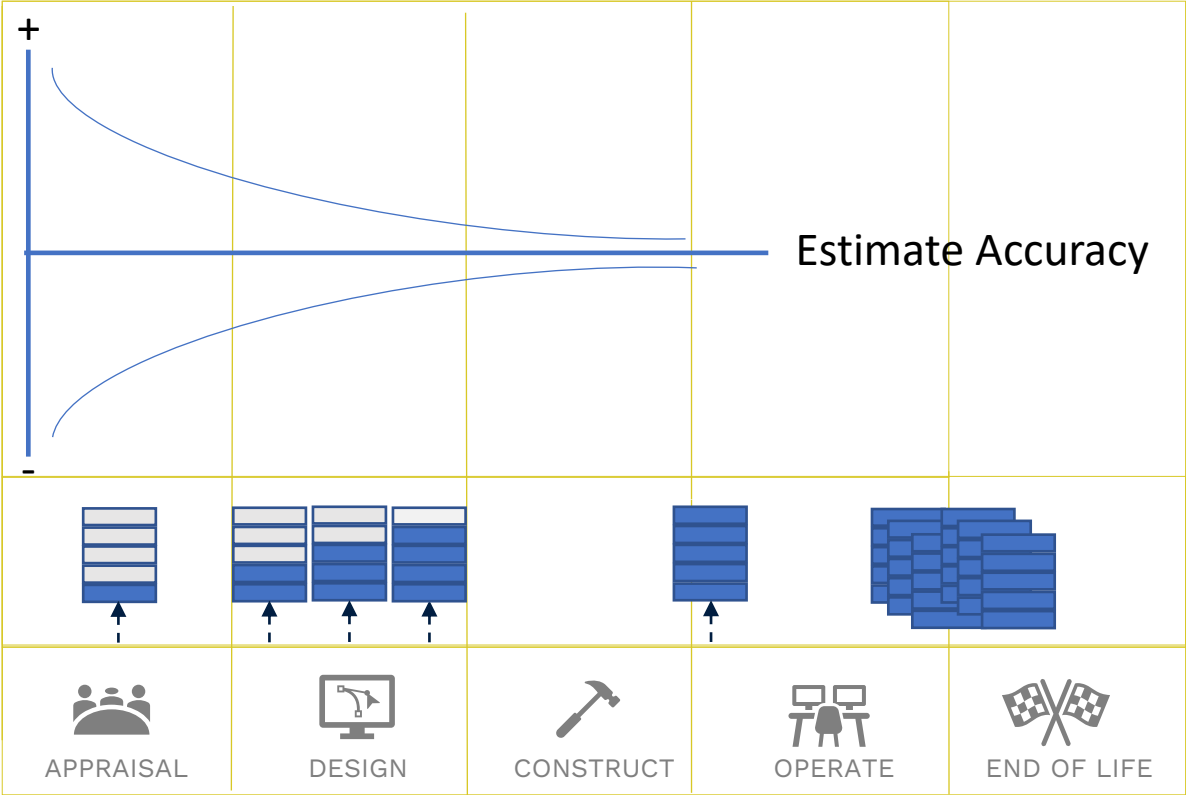
Unlike for costs, we **do not have**
a rich history of carbon data



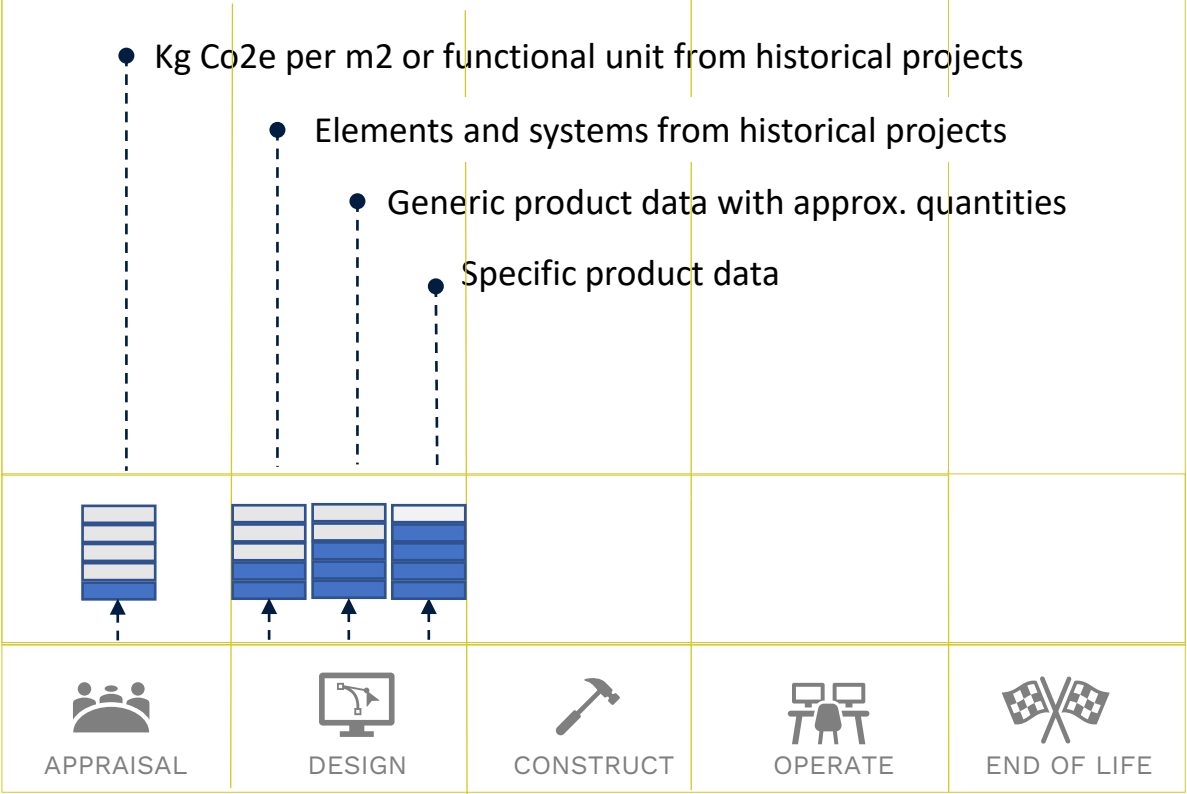
CARBON DATA



CARBON DATA

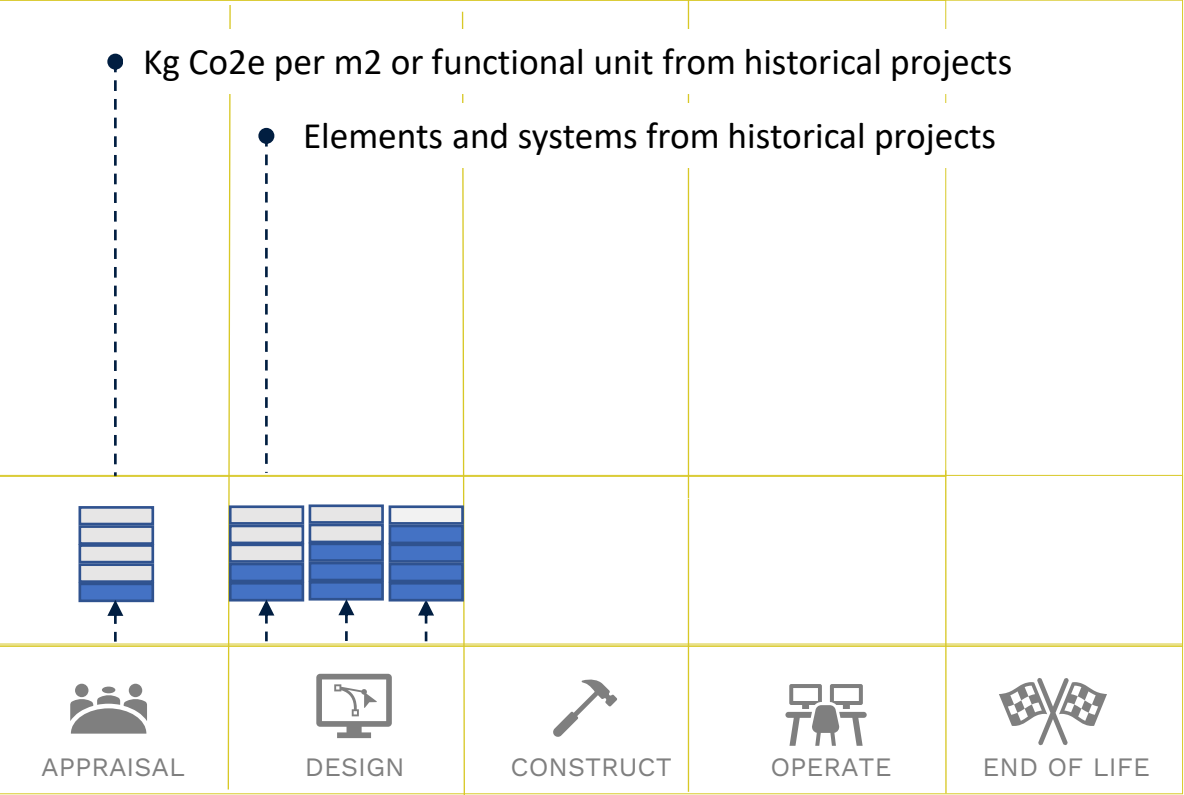


CARBON DATA



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Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to construction site	Construction & installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational emissions	Transport to landfill	Waste processing for reuse, recovery or recycling	Disposal	
					[B6] Operational energy use									
					[B7] Operational water use									
													Reuse Recovery Recycling potential	

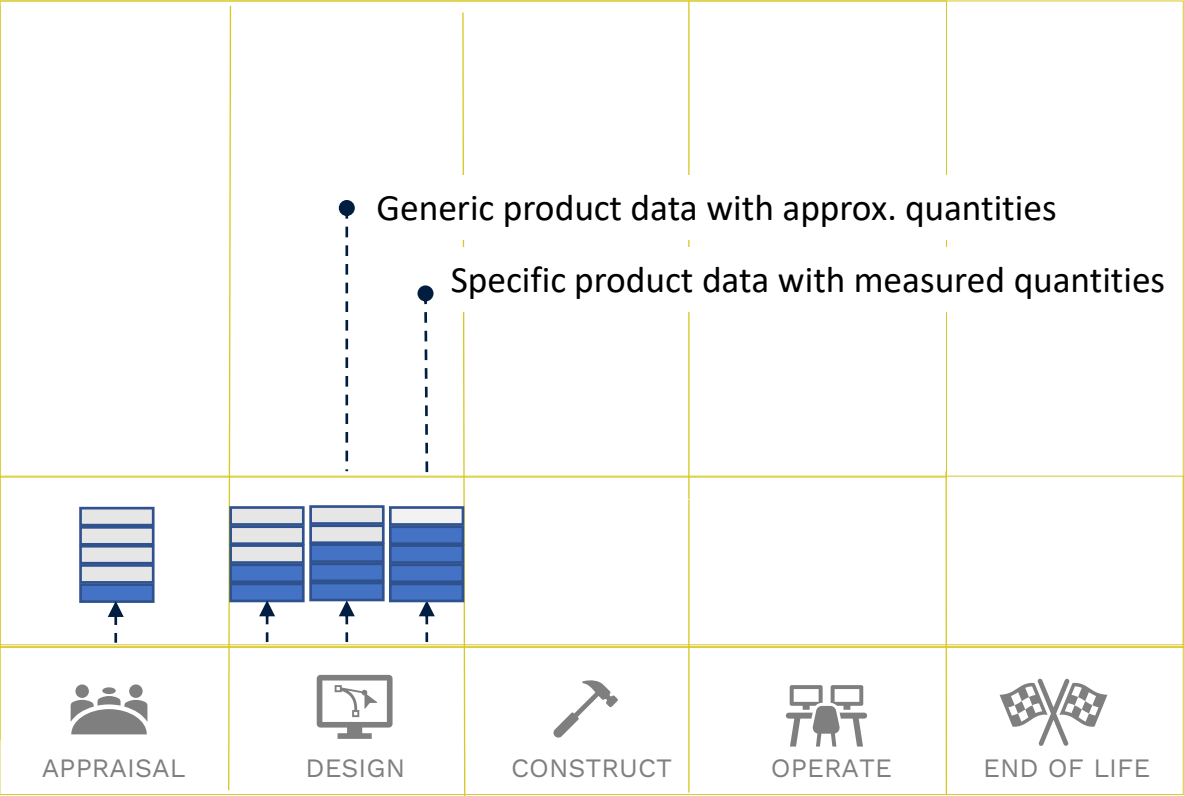
CARBON DATA



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Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use					Decommissioning				Reuse Recovery Recycling potential
					Maintenance					Transport to disposal facility				
					Repair					Waste processing for reuse, recovery or recycling				
					Replacement					Disposal				
					[B6] Operational energy use									
					[B7] Operational water use									

- RICS Buildings Carbon Database
- Various industry guidance e.g. RICS, LETI, IstructE etc.
- Commercial Software (e.g. One Click LCA)
- Research

CARBON DATA



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Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational emissions	Transport to landfill	Waste processing for reuse, recovery or recycling	Disposal	Reduce Recovery Recycling potential	
					[B6] Operational energy use										
					[B7] Operational water use										

Product Emissions

- EPDs / Unverified EPDs / other LCA's/ Estimates
- Available in many different places (BRE/ ICE Database / commercial software etc)

Quantities

- BCIS Schedule of rates
- Project material schedules / Bills

Back to home

Schedule of rates

Define Results Abstract Download

Rates Resources

BCIS Major Works Estimating Prices 2022

Adjustment factor: 1.00 Edit

Filter: [Search] Apply

Code	Description	Total Unit
B	PRELIMINARIES	
C	DEMOLITIONS, ALTERATIONS AND REPAIRS	
D	EXCAVATIONS AND EARTHWORKS	
E	PILING AND DIAPHRAGM WALLING	
F	CONCRETE WORK	
G	BRICKWORK AND BLOCKWORK	
GA	BRICKWORK	
GA001	Common bricks, BS EN 771, PC	
GA002	Walls:	
GA003	Skins of hollow walls:	
GA003A	102.5 mm	
GA003B	215 mm	
GA004	Dwarf support walls:	
GA005	Projections of footings:	
GA006	Projections of chimney breasts:	
GA007	Isolated piers and chimney stacks:	
GA008	Walls in deep narrow trenches:	
GA009	Skins of hollow walls in deep narrow trenches:	
GA010	Projections of attached piers, plinths:	
H	UNDERPINNING	
J	RUBBLE WALLING	
K	MASONRY	
L	ASPHALT WORK	
M	ROOFING	
N	WOODWORK	

102.5 mm

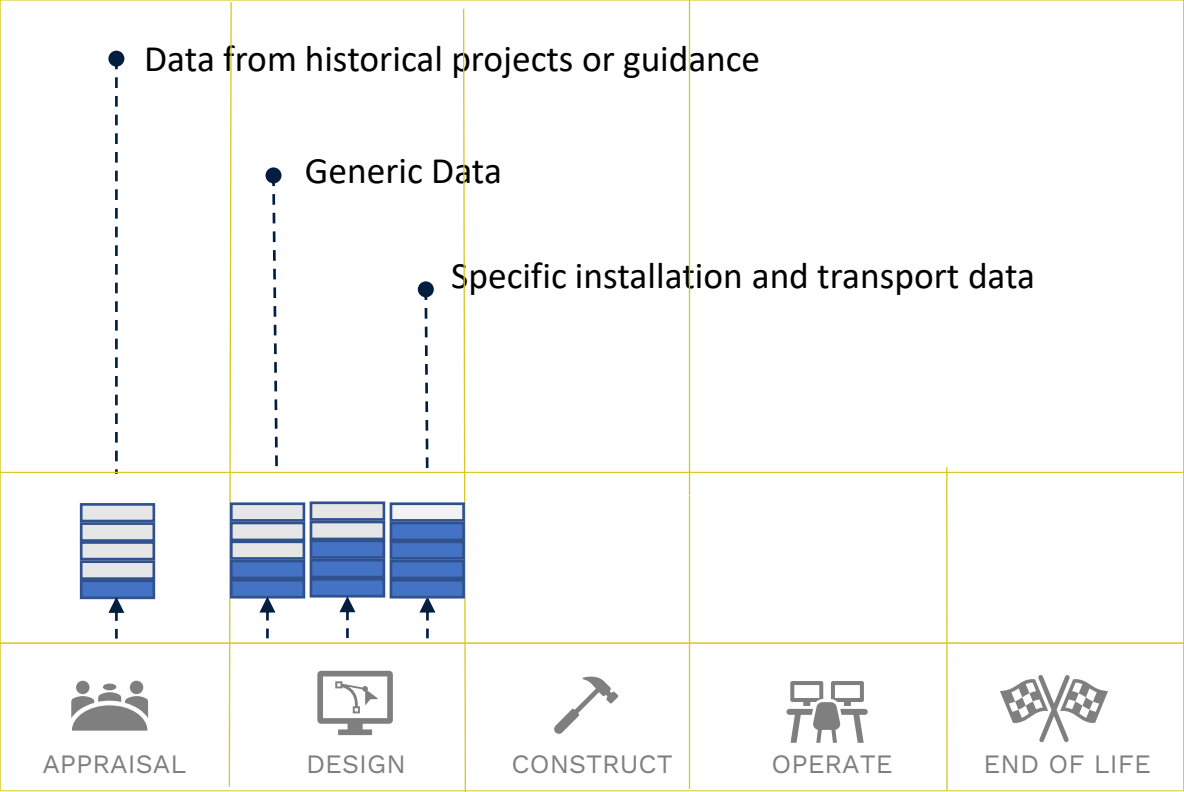
Print Download - PDF Download - CSV Download - XLSX

Code	Description	Quantity	Unit	Rate	Total
BRICKWORK AND BLOCKWORK					
BRICKWORK					
Common bricks, BS EN 771, PC £535.00 per 1000 in cement mortar (1:3)					
Skins of hollow walls:					
GA003A	102.5 mm	1.00	m2		
A0204	Brickwork gang	1.30	hour	24.81	= 32.25
A0511	Cement mortar (1:3)	0.02	m3	161.73	= 2.91
G0102	Common bricks	0.06	1000	567.00	= 34.02
Overheads and Profit					69.18

BCIS Schedule of Rates gives you:

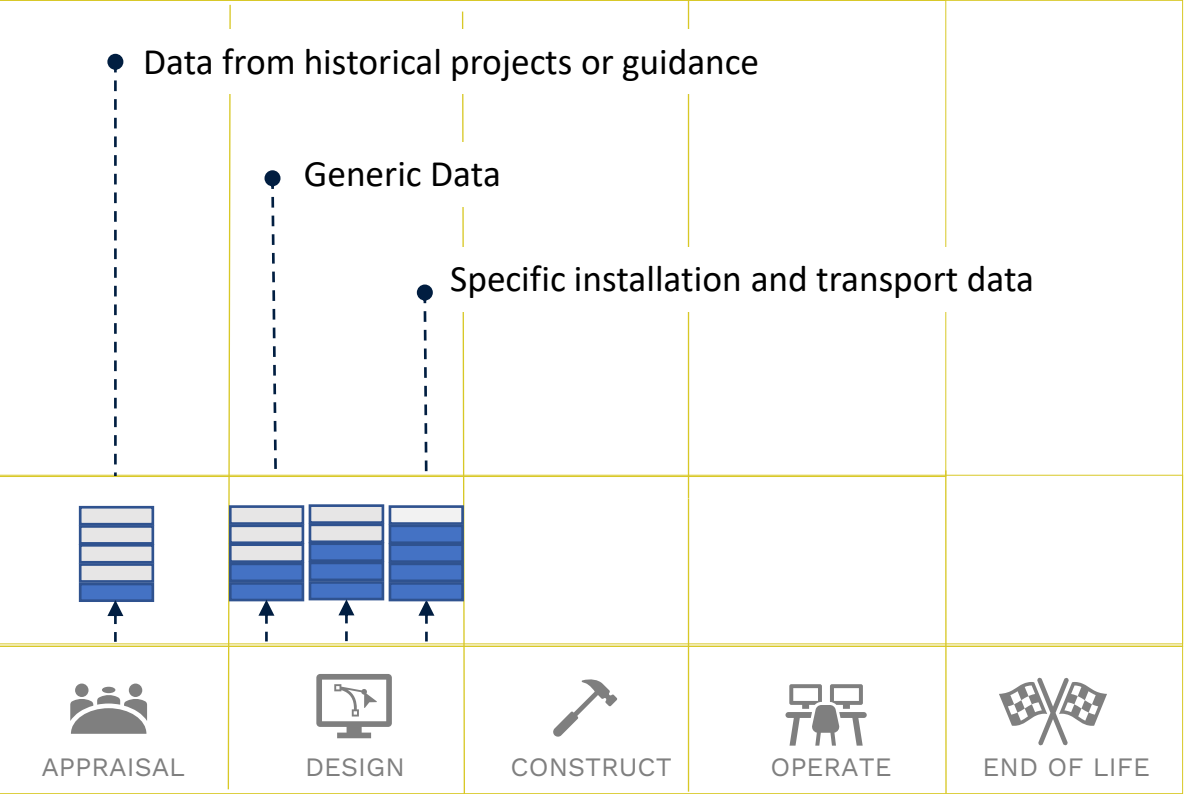
► Quantities of materials

CARBON DATA



WHOLE LIFE CARBON ASSESSMENT INFORMATION																	
PROJECT LIFE CYCLE INFORMATION																	
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[A1]	[A2]	[A3]	[A4]	[A5]	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]	[C1]	[C2]	[C3]	[C4]	[D]	
Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Decommission	Transport to landfill	Waste processing for reuse, recovery or recycling	Disposal	Benefits and risks beyond the system boundary		Future Recovery Potential	
					[B6] Operational energy use												
					[B7] Operational water use												

CARBON DATA



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PRODUCT stage			CONSTRUCTION PROCESS stage		USE stage					END OF LIFE stage			Benefits and loads beyond the system boundary		
[A1]	[A2]	[A3]	[A4]	[A5]	[B1]	[B2]	[B3]	[B4]	[B5]	[C1]	[C2]	[C3]	[C4]		
Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Decommissioning	Transport to landfill	Waste processing for reuse, recovery or recycling	Disposal	Please Recovery Recycling potential	
					[B6] Operational energy use										
					[B7] Operational water use										

Construction and Installation

- Averages from RICS PS
- BCIS Schedules
- Project activity schedules / Bills

Transport

- Averages from RICS PS
- Known transport calculations

Back to home

Schedule of rates

Define Results Abstract Download

Rates Resources

BCIS Major Works Estimating Prices 2022

Adjustment factor: 1.00 Edit

Filter: [input] Apply

Code	Description	Total Unit
B	PRELIMINARIES	
C	DEMOLITIONS, ALTERATIONS AND REPAIRS	
D	EXCAVATIONS AND EARTHWORKS	
E	PILING AND DIAPHRAGM WALLING	
F	CONCRETE WORK	
G	BRICKWORK AND BLOCKWORK	
GA	EXCAVATIONS AND EARTHWORKS	
GA001	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA002	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA003	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA003A	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA003B	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA004	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA005	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA006	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA007	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA008	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA009	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
GA010	Excavator, 360 degrees, blade, back hoe, 6 tonnes	
H	PAVING AND CONCRETE	
J	ROOFING	
K	MASONRY	
L	PAINTING AND DECORATING	
M	REINFORCEMENT	
N	WOODWORK	

300 mm

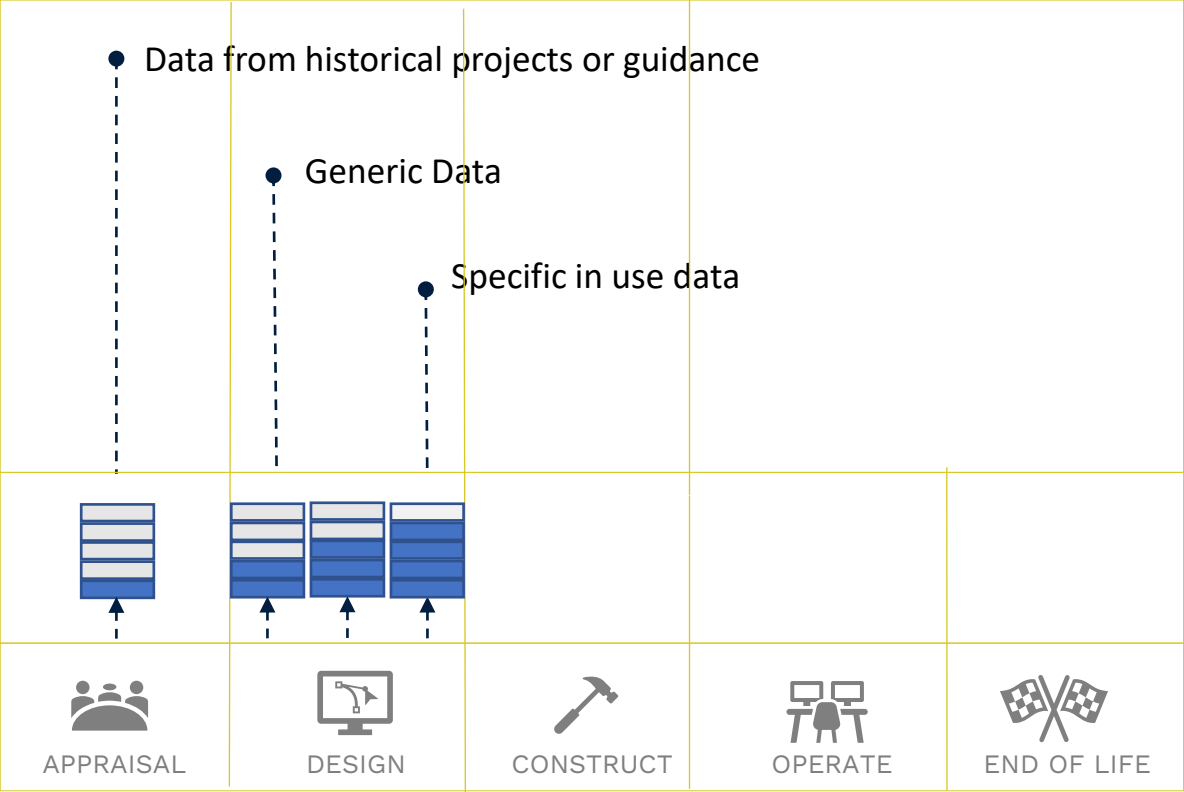
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Code	Description	Quantity	Unit	Rate	Total
EXCAVATIONS AND EARTHWORKS					
SITE PREPARATION BY MACHINE					
Excavating top soil to be preserved, by machine (Cat), average depth:					
DA001B	300 mm	1.00	m2		
A0022	Excavator, 360 degrees, blade, back hoe, 6 tonnes	0.01	hour	44.37	= 0.58
Overheads and Profit					
					0.58

BCIS Schedule of Rates gives you:

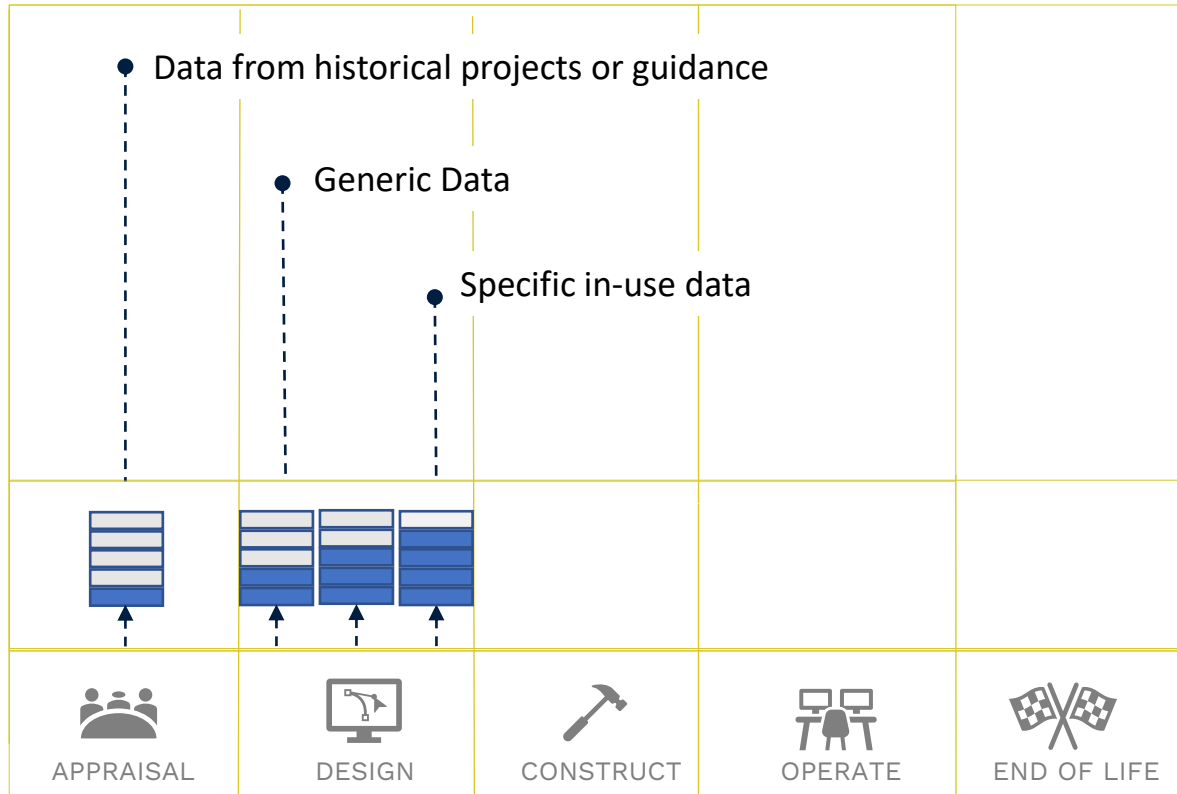
- On-site plant usage

CARBON DATA



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Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Transport to end of life facility	Waste processing for reuse, recovery or recycling	Disposal	Please Recovery Recycling potential
					[B6] Operational energy use									
					[B7] Operational water use									

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PRODUCT stage			CONSTRUCTION PROCESS stage			USE stage			END OF LIFE stage			Benefits and trade beyond the system boundary			
[A1]	[A2]	[A3]	[B4]	[B5]		[B1]	[B2]	[B3]	[B4]	[B5]	[C1]	[C2]	[C3]	[C4]	
Raw material extraction & supply	Transport to manufacturing plant	Manufacturing & fabrication	Transport to project site	Construction & installation process		Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Transport to disposal facility	Waste processing for reuse, recovery or recycling	Disposal	Reuse Recovery Recycling potential
						[B6] Operational energy use									
						[B7] Operational water use									

- ▶ Operational Energy
- ▶ What maintenance / replacement / repair / refurb activities need to be done over the life of the project
- ▶ How often they need to be done
- ▶ Quantities of materials
- ▶ Product emissions of materials
- ▶ Disposal, Installation, transport

Back to home

Component life

Define Results Download

Basic parameters

Elements

- 01 Substructure
- 02.01 Frame
- 02.02 Upper Floors
- 02.03 Roof
- 02.04 Stairs
- 02.05 External Walls
- 02.06 External Windows and Doors
- 02.07 Internal Walls and Partitions
- 02.08 Internal Doors
- 03.01 Wall Finishes
- 03.02 Floor Finishes
- 03.03 Ceiling Finishes
- 04 Fittings, Furnishings and Equipment
- 05.01 Sanitary Installations
- 05.03 Disposal Installations
- 05.04 Water Installations
- 05.05 Heat Source
- 05.06 Space Heating and Air Conditioning
- 05.07 Ventilating Systems
- 05.08 Electrical Installations
- 05.10 Lift and Conveyor Installations
- 05.11 Fire and Lightning Protection
- 05.12 Communications and Security
- 08.02 Roads, Paths, Pavings and Driveways
- 08.04 Fencing, Railings and Walls
- 08.06 External Drainage
- 08.07 External Services

Selected

No components selected...

03.01 Wall Finishes

Select one or more components

Select all Clear all Cancel Close and apply

- ☐ Dry Lining: Gyproc Wallboard: Insulating grade, plastic faced; taped joints; for direct decoration
- ☐ Dry Lining: WBP Plywood: Including battens
- ☐ Dry Lining: Chipboard: Including battens
- ☐ Dry Lining: Non-Asbestos Boards: Flame proof, Class O; including battens
- ☐ Dry Lining: MDF Boards: Including battens
- ☐ Boarding/Panelling: Hardwood: Tongued and grooved, v-jointed; including battens
- ☐ Insitu Finishes: Lightweight Plaster: Two coats; to brickwork/blockwork base
- ☐ Insitu Finishes: Hardwall Plaster: One coat Thistle Universal; to brickwork/blockwork base
- ☐ Insitu Finishes: Self-Coloured Render: 20mm; to brickwork/blockwork base
- ☐ Insitu Finishes: Tyrolean Decorative Render: 15mm; four coats; to brickwork/blockwork base
- ☐ Insitu Finishes: Roughcast Coating: 15mm; render and dry dash; to masonry or concrete
- ☐ Decorations: Emulsion Paint: One mist and two coats; to brick/block walls, cement render/concrete, plaster walls
- ☐ Decorations: Eggshell Paint: One undercoat and two finishing coats; to plaster or concrete
- ☐ Decorations: Masonry Paint: One base coat and two finishing coats; to rendered or masonry walls
- ☐ Decorations: Textured Plastic Finish: One coat sealer and one coat Artex; to plaster, brickwork/blockwork, or concrete walls
- ☐ Decorations: Vinyl Wallpaper: Decorative paper backed; adhesive
- ☐ Rigid Finishes: Glazed Ceramic Tiles: Fixing with adhesive; including backing
- ☐ Rigid Finishes: Granite Cladding: 20mm; polished finish; jointed and pointed in place
- ☐ Rigid Finishes: Marble Cladding: 20mm; polished finish; jointed and pointed in place
- ☐ Picture rails, dado rails: MDF
- ☐ Picture rails, dado rails: Softwood

Select all Clear all

03.01 Wall Finishes

Component	Median life in years		
	Typical	Min.	Max.
<input checked="" type="checkbox"/> Insitu Finishes: Lightweight Plaster: Two coats; to brickwork/blockwork base	50	30	65
<input checked="" type="checkbox"/> Insitu Finishes: Roughcast Coating: 15mm; render and dry dash; to masonry or concrete	40	25	50
<input checked="" type="checkbox"/> Decorations: Emulsion Paint: One mist and two coats; to brick/block walls, cement render/concrete, plaster walls	7	4	10
<input checked="" type="checkbox"/> Decorations: Textured Plastic Finish: One coat sealer and one coat Artex; to plaster, brickwork/blockwork, or concrete walls	15	10	20

BCIS Component Life gives you:

► Frequency of replacements

Back to home

Component Lifecycle

?

Define

Results

Calculate

Download

Components

Activities

Review selected components

Project: 060520

Created: 06-May-2020 14:21:00

Lifespan: 50 years

Price level

Date: 1Q2020

Location: UK mean location

Edit

Remove All

?

Code	Description	Quantity	Unit
2.5.7.1	Curtain walling system; extruded powder coated aluminium; insulated spandrel panels; double glazed vision panels and opening casement lights; fixed to supporting structure; flat vertical curtain walling in sections; 185 mm thick	20,000.00	m²
5.6.7.1	Air handling unit; with motorised damper and bag and panel filters, heating and cooling coils, supply fan; assembling and placing internally: volume, external pressure: 5 m3/s at 700 Pa	1.00	nr
5.6.7.4	Air handling unit; with motorised damper and bag and panel filters, heating and cooling coils, supply fan; assembling and placing internally: volume, external pressure: 18 m3/s at 350 Pa	1.00	nr
5.10.1.1	Traction; machine room less; standard finish; 630 kg; 8 person; 1.0 m/s; serving: 2 floors	1.00	nr

Code	Description	Quantity	Unit		
2.5.7.1	Curtain walling system; extruded powder coated aluminium; insulated spandrel panels; double glazed vision...	20,000.00	m²		
Activity Class	Activity	Time Unit	Average Usage	High Usage	Low Usage
Asset replacement	Remove Existing and Replace With New	Year	42	30	57
Cleaning	General Cleaning	Week	52	24	78
Inspection	Inspection	Year	5	3	7
Planned maintenance	Repair Joints	Year	5	3	7
Reactive maintenance	Allowance for Reactive Maintenance	Year	5	3	7
5.6.7.1	Air handling unit; with motorised damper and bag and panel filters, heating and cooling coils, supply fan...	1.00	nr		
Activity Class	Activity	Time Unit	Average Usage	High Usage	Low Usage
Asset replacement	Remove Existing and Replace With New	Year	20	15	25
Inspection	Inspection	Year	1	1	2
Reactive maintenance	Allowance for Reactive Maintenance	Year	5	3	7
5.6.7.4	Air handling unit; with motorised damper and bag and panel filters, heating and cooling coils, supply fan...	1.00	nr		
Activity Class	Activity	Time Unit	Average Usage	High Usage	Low Usage
Asset replacement	Remove Existing and Replace With New	Year	20	15	25
Inspection	Inspection	Year	1	1	2
Reactive maintenance	Allowance for Reactive Maintenance	Year	5	3	7
5.10.1.1	Traction; machine room less; standard finish; 630 kg; 8 person; 1.0 m/s; serving: 2 floors	1.00	nr		
Activity Class	Activity	Time Unit	Average Usage	High Usage	Low Usage
Asset replacement	Remove Existing and Replace With New	Year	25	20	40
Cleaning	Clean Lift	Week	4	2	8
Inspection	Inspection	Year	1	1	2
Reactive maintenance	Allowance for Reactive Maintenance	Year	5	3	7

Profile

Metric ☐ Cost ☐ CO2 ☒ CO2e

Years 50

Usage ☒ Average ☐ High ☐ Low

☒ Show totals column

☐ Show discount/inflation factors

☒ Show capital costs

☐ Display cumulative results

Price basis

☒ Current cash

☐ Future cash

Inflation rate 0.25%

☐ NPV

Discount rate 3.50%

Project

Project type

☒ Compare component ☐ Build-up

Components: CO2e (kg)

Year	2.5.7.1	5.6.7.1	5.6.7.4	5.10.1.1
Capital	2,448,181.34	1,683.16	4,971.19	12,558.03
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	1,683.16	4,971.19	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	12,558.03
26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00



BACKGROUND



The Built Environment Carbon Database is an industry initiative led by a consortium of UK-based professional bodies and organisations:



BACKGROUND

- Autumn 2020: RICS and Arup conducted a workshop with industry representatives to determine the industry needs
- Spring 2021: RICS convened major UK professional bodies and organisations to collaborate on an industry-led database of emissions for the UK built environment

OBJECTIVES

Establishing the official UK repository for whole-life carbon data on the built environment

- Harmonise and streamline reporting of carbon assessment
- Increase availability of free data
- Increase transparency and data quality
- Align with and strengthen the RICS PS on WLC (2017 and 2023) and Net Zero Carbon Buildings Standard

CONCEPT

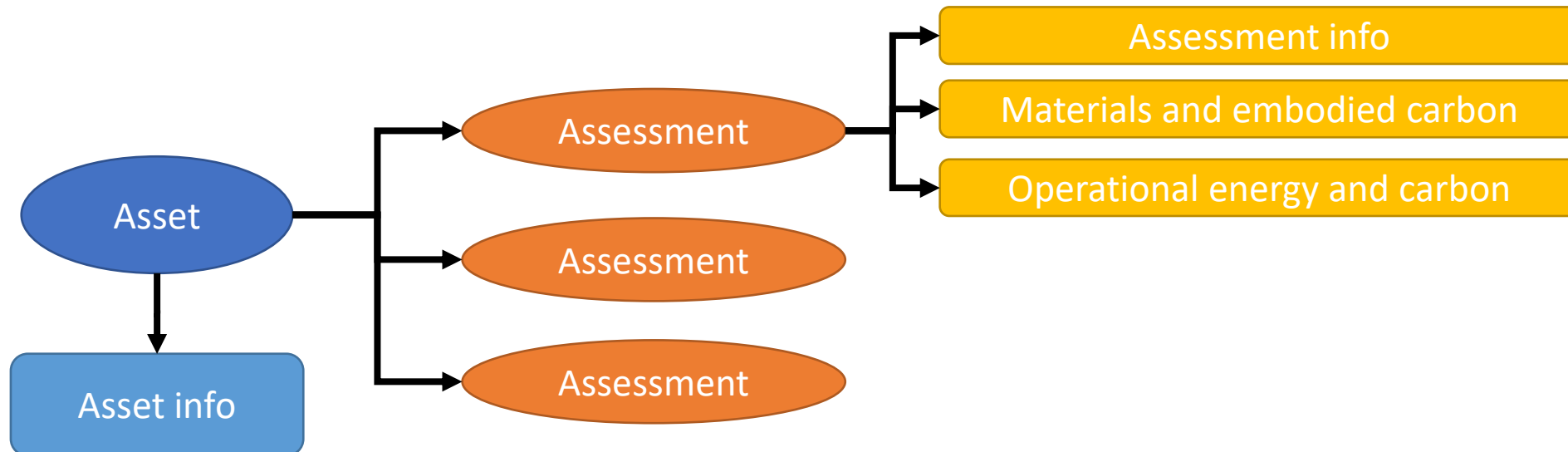
- A data repository, not at an assessment tool
- Capable to import/export data from/to existing software applications
- Basic account (free) to report and retrieve carbon data
- Pro account (paid) for advanced filtering and benchmarking
- Raw data will always be free to access

2 separate database sections:

- Assets (i.e. projects)
 - Buildings and infrastructure
 - Embodied and operational carbon
- Products
 - Environmental Products Declarations (EPD)
 - Other product Life Cycle Assessments (LCA)

ASSET SECTION

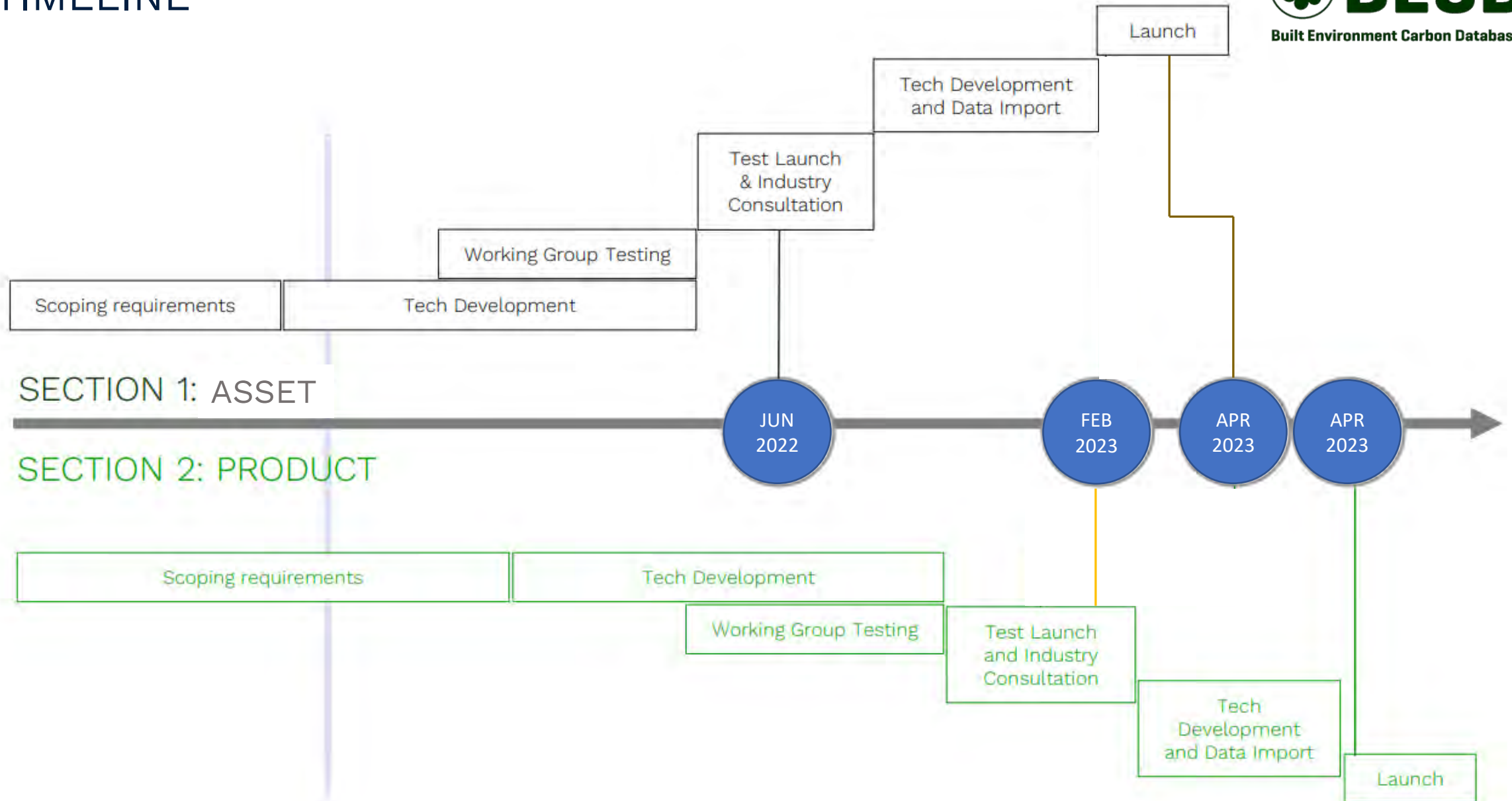
- Embodied and/or operational carbon
- Project stage tracking
- Manual and semi-automated data input
- Project sharing among users
- Project analysis and comparison
- Data export



PRODUCT SECTION

- A catalogue of existing LCAs for construction products
- Basic information about each LCA record
- Search records & filter function
- Data input function
- Bringing together different sources
 - EcoPortal EPDs
 - Other EPDs
 - ICE database benchmarks
 - Academic LCAs
 - Professional LCAs
 - Paid databases

TIMELINE



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Home > Materials

Materials

Insulation

16 Results

Rigid Insulation Urethane Board (5)

Insulated Plasterboard & Ply (7)

Mineral wool Insulation (6)

Acoustic Insulation (0)

Vermiculite Loose Fill Insulation (0)

Rigid Board Foil Backed Insulation 2400x1200x50mm

Rigid Board Foil Backed Insulation 2400x1200x50mm

Rigid Board Foil Backed Insulation 2400x1200x50mm

Rigid Board Foil Backed Insulation 2400x1200x70mm

Rigid Board Foil Backed Insulation 2400x1200x75mm

Rigid Board Foil Backed Insulation 2400x1200x80mm

Rigid Board Foil Backed Insulation 2400x1200x100mm

Compare

Materials

Back to Product Type

Rigid Board Foil Backed Insulation 2400x1200x50mm

Rigid Board Foil Backed Insulation 2400x1200x75mm

Rigid Board Foil Backed Insulation 2400x1200x90mm

Product Details

Unit of Measure	Per Sheet	Per Sheet	Per Sheet
Size	2400x1200x50	2400x1200x75	2400x1200x90
Weight	12kg	12kg	12kg
Volume	0.344m3	0.344m3	0.344m3
Cost	£40	£80	£80
Typical Discount	20-30%	20-30%	20-30%
Price Movement over the last 12 months	12%	12%	12%
Forecast Price movement over the next 12 months	25%	25%	25%
Typical Life Expectancy	30 Years	30 Years	30 Years
Country of Origin	UK	UK	UK
Embodied Carbon	(A1-3) - 25kg CO2e	(A1-3) - 25kg CO2e	(A1-3) - 25kg CO2e
BECD Database Link	UID2847556	UID2847556	UID2847556
Recycled Content	20%	20%	20%
Packaging	None	None	None

Search by Title



SUMMARY

We are in the **biggest fight of our lives** and we all need to **be doing something about it**

Guidance on how to measure the impacts of design choices is available as discussed in the first part of our webinar series

Consistent available data is essential. The data is building and will be available in BCIS and BECD

Aligning cost and carbon measurement and reporting is the focus of our next webinar – later this year



More data will help sharing, learning and driving future improvement