

Welcome

87 Partners working together to inspire a more sustainable supply chain

SUPPLY CHAIN SUSTAINABILITY SCHOOL



AGM – agenda

Agenda – Friday 29th March, 1pm – 4pm

Grosvenor Offices, 5th Floor, 70 Grosvenor Street

1. Introduction – *Shaun McCarthy*
2. Re-election of Chair – *Nitesh Magdani*
3. Receive Annual report on performance
 - a) *Annual Accounts – Keith Chanter*
 - b) *Annual Report & Impact survey - 2018/19 – Hilary Hurrey*
 - c) *Risk Register – Kieran Brocklebank*
4. Approve Business Plan for 2019/20 – *Ian Heptonstall*
5. School 2025 Strategy – *Dale Turner*
6. Web Portal Update – *Wendy Carwardine & Ian Heptonstall*
7. Facilitated discussions on Special Interest Groups subjects:
 - a) *Plant – James Cadman*
 - b) *Labour – Helen Carter & Jackie Cuthbert*
 - c) *Waste – James Cadman*
 - d) *Wellbeing – Ian Heptonstall*
 - e) *FIR – Tolu Oke*
 - f) *Offsite – Charles Naud*
 - g) *Procurement – Shaun McCarthy & Nathalie Ritchie*
8. Any other business

2. Re-appointment of Chair

Nitesh Magdani





Re-appointment of Chair

The Partners are asked to approve the re-appointment of Shaun McCarthy OBE as the Chair of the School for the next 12 months.

1 - Yes

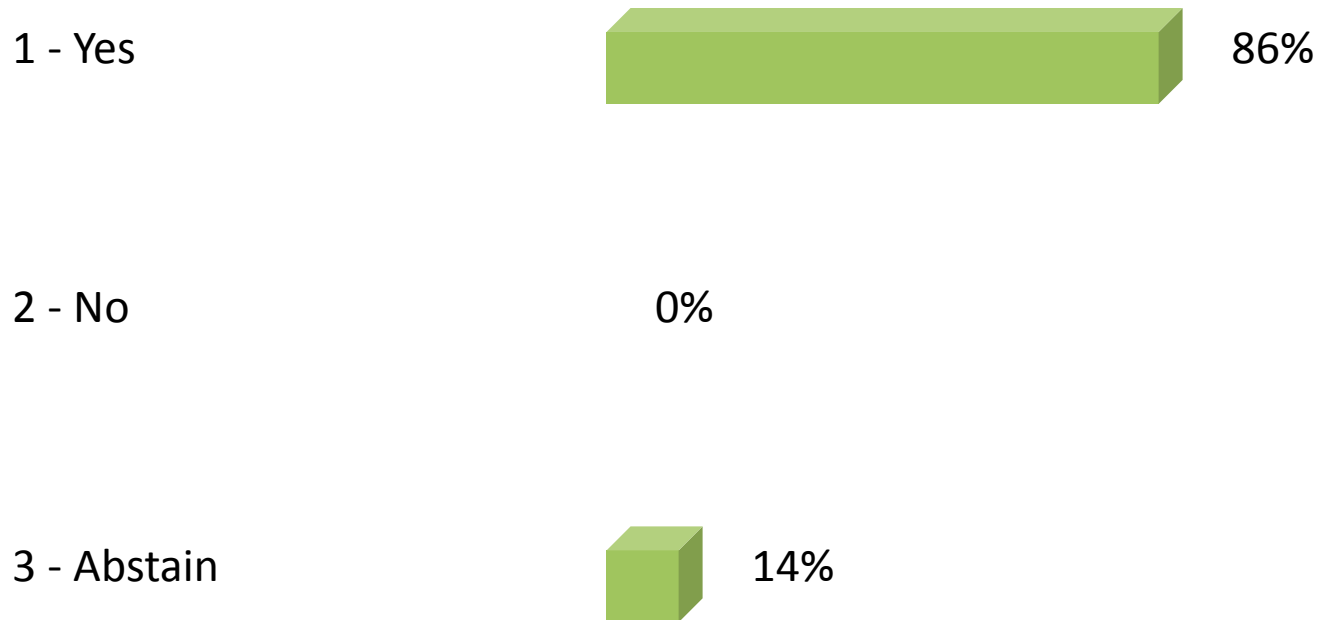
2 - No

3 - Abstain

Please note only 1 vote per Partner

Re-appointment of Chair

The Partners are asked to approve the re-appointment of Shaun McCarthy OBE as the Chair of the School for the next 12 months.



3. Annual Report on Performance

Financial performance 2018/19

Keith Chanter
Board member



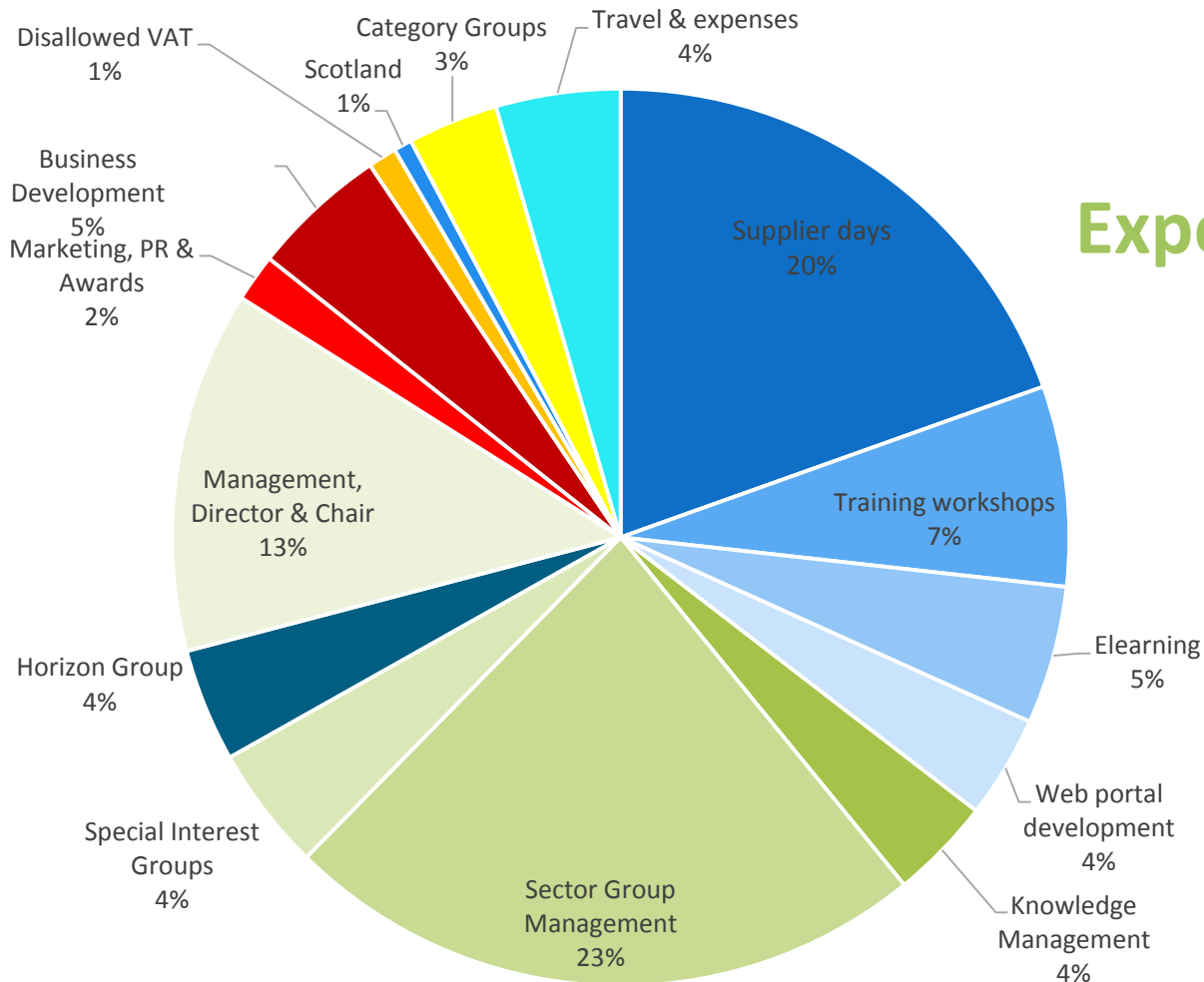
Summary

The focus of the review was to:

1. Ensure that the basis of allocation of income and costs appeared reasonable given the activities delivered by Action Sustainability (ASTL) on behalf of the School.
 - This I conclude is the case.
2. Review the reasonableness of the “value for money” of the services delivered by ASTL.
 - On the basis of the review and against the deliveries made against School targets I conclude that, at least at a summary level, ASTL deliver VFM.
3. Review the financial position of ASTL to assure the School of the longer-term viability of their delivery partner
 - ASTL appear financially stable and viable to continue as delivery partner for the foreseeable future.

Income and expenditure summary

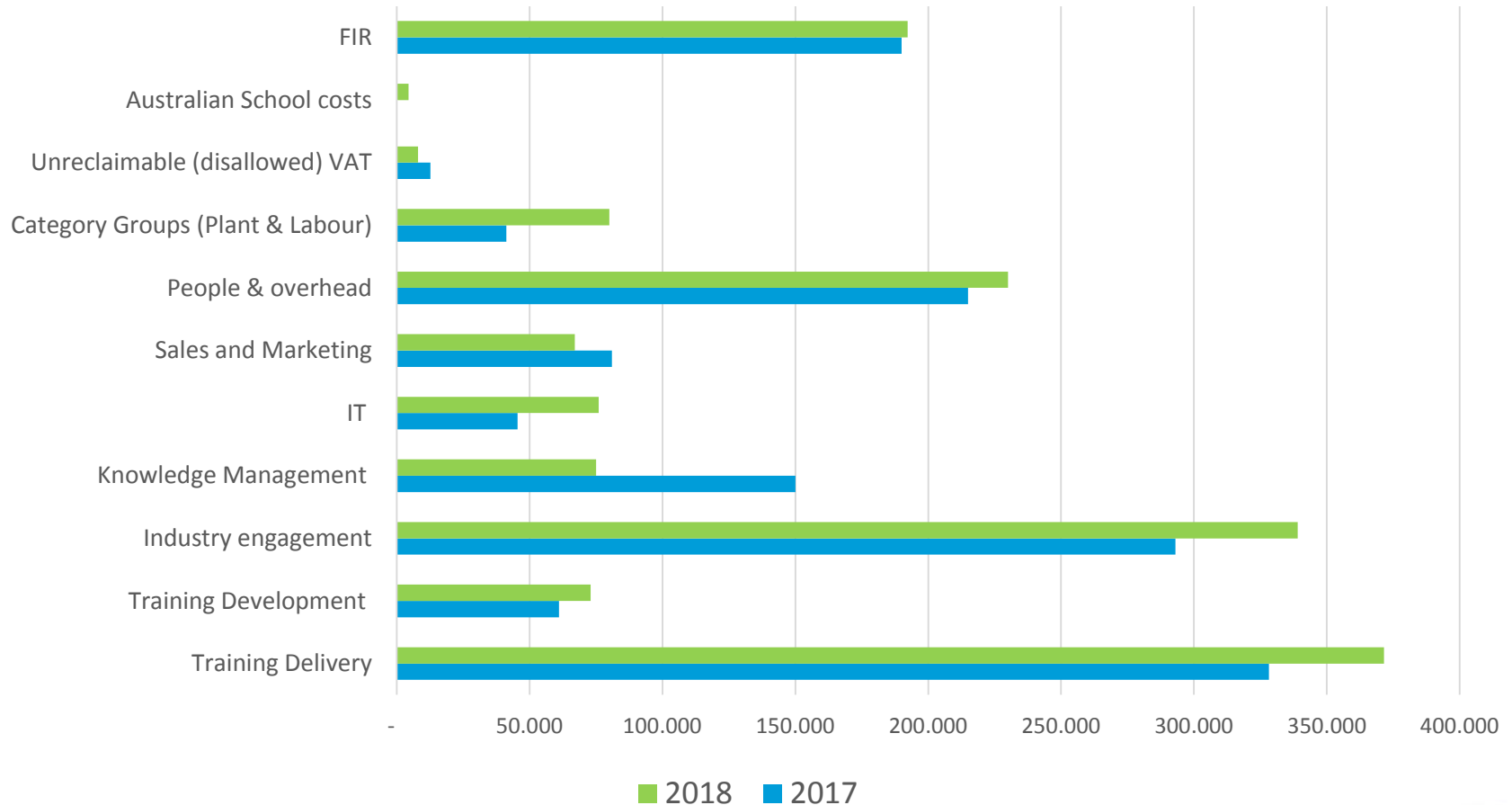
Income Detail	2018/19 Actual	2018/19 Budget	Variance
CITB <i>Restricted funding</i>	500,000	500,000	0
CITB FIR <i>Restricted funding</i>	162,000	162,000	0
Partner - single x £11k x 45	823,738	760,000	-2,262
Multi School x £16.55K x 5			
Multi School x £22K x 5 or £25k unlimited		66,000	
New partners - assume 12			
Wales - funders (NPTC & others)	15,000	30,000	-15,000
Australia licence	12,500	5,000	7,500
Total income	1,513,248	1,523,000	-9,762
Total costs	1,520,300	1,505,840	+£14,460
Net position	-£7,062	£17,160	-£24,222



Expenditure by activity

Spend
by activity
2018/19

Comparison by activity – 2017/18 to 2018/19



Type	Detail	Unit Budget/ Actual	Budget	Actual	Actual Sub-Totals
Training Delivery	Supplier days	12	144,000	£144,000	
	Training – Supply Chain & Partners	54/75	81,000	£112,500	
	Regional engagement events	23	115,000	£115,000	£371,500
Training Development	E-learning development	3	30,000	£30,000	
	E-learning maintenance & CPD	1	20,000	£20,000	
	Webinar development	1	3,000	£3,000	
	Video content development/ Testimonials	1	17,000	£17,000	
	Social Value in Infrastructure	3	4,500	£3,000	£73,000
Industry engagement	Sector group officers x 5 groups	5	150,000	£150,000	
	Sector Manager x 5	5	75,000	£75,000	
	Offsite Sector Manager & Officer	1	30,000	£30,000	
	Facilitation of Architects Group	1	15,000	£15,000	
	Scotland Sector Manager & Officer	1	20,000	£45,000	
	Support at Partner Internal Events	1	15,000	£15,000	
	Resources Group	1	9,000	£9,000	£339,000
Knowledge Management	Special interest Groups - Procurement	1	15,000	£15,000	
	Knowledge Manager and specialist advice	5	45,000	£45,000	
	Horizon Group	1	35,000	£15,000	£75,000
IT	Offsite Diagnostic Review	1	5,000	£5,000	
	Web development costs(School 4.0)	1	0	£55,000	
	Web depreciation	1	16,000	£16,000	
	Intelligent Marketing Systems	1	40,000	0	£76,000
Sales and Marketing	PR	1	12,000	£12,000	
	Awards, Exhibition space & collateral	1	10,000	£10,000	
	Business development and funding	1	45,000	£45,000	£67,000
People & overhead	Management, Directors and Chair	1	170,000	£170,000	
	Travel & expenses	1	60,000	£60,000	£230,000
Other	Category Groups (Plant & Labour)	2	80,000	£80,000	£80,000
	Unreclaimable (disallowed) VAT	1	20,000	£12,000	£12,000
	Australian School costs	1	-	£4,500	£4,500
	FIR	1	184,340	£192,300	£192,300
	Contingency		40,000	0	
Total					£1,520,300

Budget:
High level *by activity*

Spend
by activity
2018/19

Red is underspend
Blue is additional spend

Annual Report & Impact Survey

Hilary Hurrey
Senior Project Manager



School activity 2019

VS
2018

People



3,036

ACTIVE ORGANIZATIONS
41% ↑



5,723

ACTIVE USERS
41% ↑



508

BRONZE, SILVER, GOLD LEVEL MEMBERS
29% ↑



87

PARTNERS
17 ↑

Assess



1,694
SKILLS ASSESSMENTS
28% ↑



721
RE-ASSESSMENTS
53% ↑

Learn



20,000

HOURS FACE-TO-FACE TRAINING



7,000

DOWNLOADS OF E-LEARNING



120,000

RESOURCES ACCESSED SINCE 2012



34%

REDUCED CARBON EMISSIONS

3% ↓

58%

AGREE THE SCHOOL HELPED ACHIEVE THIS

10% ↑



41%

REDUCED WASTE

1% ↑

65%

AGREE THE SCHOOL HELPED ACHIEVE THIS

9% ↑



71%

INCREASED MODERN SLAVERY

UNDERSTANDING

8% ↑

86%

AGREE THE SCHOOL HELPED ACHIEVE THIS

4% ↑



64%

INCREASED UNDERSTANDING

15% ↑

87%

AGREE THE SCHOOL HELPED ACHIEVE THIS

2% ↑



45%

INCREASED COMMUNITY ENGAGEMENT

No change



50%

INCREASED UNDERSTANDING OF RESPONSIBLE SOURCING

1% ↑



36%

INCREASED APPRENTICE NUMBERS

4% ↑



20%

IMPROVED AIR QUALITY

5% ↑



16%

REDUCED WATER CONSUMPTION

2% ↓

72%

AGREE THE SCHOOL HELPED ACHIEVE THIS

6% ↑

77%

AGREE THE SCHOOL HELPED ACHIEVE THIS

4% ↓

42%

AGREE THE SCHOOL HELPED ACHIEVE THIS

2% ↓

69%

AGREE THE SCHOOL HELPED ACHIEVE THIS

15% ↑

53%

AGREE THE SCHOOL HELPED ACHIEVE THIS

3% ↑

School impact on business performance



47%
REDUCED
COSTS



40%
WIN NEW
BUSINESS



57%
MORE
COLLABORATI
VE



63%
BETTER
UNDERSTANDING OF
SUSTAINABILITY



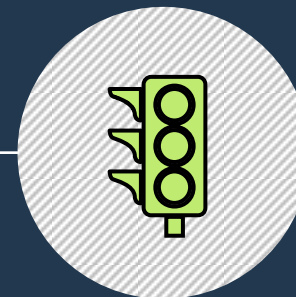
28%
RETAINED
TALENT



56%
BETTER
RELATIONSHIPS
WITH SUPPLIERS



47%
IMPROVED QUALITY
OF BIDS



49%
REDUCED
REPUTATIONAL
RISKS

Lessons Learnt

- Learning requires constant reminders
- The assessment process needs a re-think
- Value for money and building multiple relationships within Partner Organisations is vital
- The School platform is a complex system which requires upgrading
- Research requires significant funding streams

Risk(s)

Kieran Brocklebank

Board member



Our key top 4 risks

Section	Description	Likelihood	Consequence	Inherent Risk	Mitigation	Likelihood	Consequence	Residual Risk
Construction market:	Construction Industry goes into recession	Likely	High	High	<ul style="list-style-type: none"> The issues that are represented within the School are relevant to the industry. The Partners of the School will still require their supply chains to engage with the School. 	Likely	Moderate	Medium
IT development and Maintenance capacity:	Cyber security, website goes down	Likely	High	High	<ul style="list-style-type: none"> The School has an SSL on the tool which stands for 'Secured Socket Layer' protocol, which creates a secure and encrypted connection on the Internet. When a user is logged into their account the web address is highlighted to indicate it is on a secure domain. The servers are not contained on site or on the web developers site. The data which the School contains is not sensitive. 	Possible	High	Medium
School Delivery Partner:	SCSS - Ability to attract and keep talent	Likely	High	High	<ul style="list-style-type: none"> Employing an apprenticeship focusing on specialist areas e.g. digital marketing. Be seen as a good employer and offer employee benefits such as contributory pension, above average for annual leave entitlement etc. Ensure personal development plans and training are tailored and reviewed regularly and that there is reasonable investment within training. Reward and recognise system established so members feel valued for their value and commitment to the organisation. This is not necessarily financial. 	Possible	High	Medium
Funding:	Specific outputs not delivered so don't get paid.	Likely	High	High	<ul style="list-style-type: none"> Five year business plan in place which allows for CITB funding to finish. AS Project Manager (Hilary Hurray) managing the process & tracking performance and producing quarterly reports. Should CITB no longer exist due to external actions the contract with the School has allowed for the funding to be drawn down earlier and put aside for the longevity of the project. 	Possible	Moderate	Low

Other risks – before mitigation

Section	Description	Risk
Regulation & governance	Reputational Risk - School does not act as a responsible business with its Partners, Members, staff and other stakeholders (e.g. – competition act, wellbeing of staff)	Medium
Regulation & governance	The HMRC treatment of VAT on grant funding changes	Medium
IT development and Maintenance capacity:	The web and LMS developers ceases trading	Medium
Capacity and capability of the School team:	Inability to keep up to date and deliver training for new knowledge. The School does not keep up to date with new, relevant knowledge.	Medium
Competition:	Partners do not repeat or grow.	Medium
IT development and Maintenance capacity:	Keeping up to date with web technology overall	Medium
Competition:	New market entrance result in loss of funding and lack of collaborative approach to the Supply Chain.	Medium

Other than reputational risk all go to low risk after mitigation measures are in place

Section	Description	Risk
Regulation & governance	Management systems not robust to deal with growth	Low
Capacity and capability of the School team:	Not enough trainers available or knowledge experts or no trainers available for specific areas of expertise.	Low
Regulation & governance	Skills and competence of the Board does not reflect the needs of the School	Low
Competition:	Existing organisations widen their scope to cover skills in the construction supply chain (e.g. CIPS, UKGBC, BUILD UK, CIOB, CCS, BRE, other trade federations etc).	Low
IT development and Maintenance capacity:	Web developer is unable to growth deliver at the pace the School requires	Low
Capacity and capability of the School team:	The School team do not keep up with new marketing skills, platforms and techniques	Low
Regulation & governance	Board thinking does not follow School Partners thinking	Low
Competition:	‘Free rider’ risk: a potential Partner decides to stay at Membership level with the attitude that there are enough Partners driving the School.	Low
School Delivery Partner:	Death in service of a director(s) of Action Sustainability	Low
School Delivery Partner:	Failure of delivery partner and ceases to trade.	Low
Regulation & governance	GDPR- use/misuse of personal data	Low

4. Approve Business Plan 2019/20

Ian Heptonstall

School Director



Business planning 2019/20

Action required:

The members need to approve the business plan and budget for 2019/20

Business planning process

Starting October and concluding in March at the AGM



New Priorities

Increased spend on

Waste
Management

£40K

Wellness

£30k

More
Webinars

£10k

1 x Special
interest group

£15k

IT system

£80.5K

Increase in
FIR spend

£10K

Reduced spend on

Offsite
£100k

3 less
supplier
days
£37.5k

Less
training
courses
£10k

Income assumptions 2019/20

Income Detail	2018/19 Actual (forecast to year end)	2019/2020 Budget
CITB <i>Restricted funding</i>	500,000	448,500
<i>CITB Restricted funding</i>		214,050
CITB FIR <i>Restricted funding</i>	162,000	135,426
Partner - single x £10k x 45	838,738	882,112
Multi School x £15K x 5		
Multi School x £20K x 5		
New partners - assume 12		65,888
Wales - funders (NPTC & others)	15,000	15,000
Australia licence	12,500	10,000
Total	1,528,428	£1,770,976

Partner funding assumes:

1. 5% increase from 1st April 2019
2. 12 Partners to come in next year
3. 3 partners drop out over the year (hope not!)

Restricted funding for 2019/20

Funding from CITB comes with deliverables and outputs that have to be delivered to draw down funds. Some latitude exists on these, but key facts are learner numbers and employers engaged

CITB School
Grant
£448k

Must deliver

- 1,000 employers engaged
- 2,750 learners at 70 short duration courses
- 10 x case studies
- Employer leadership groups
- Annual evaluation
- Training development (e-learning, short duration or toolbox talks)

Offsite
Grant
£214k

Must deliver

- 7 e-learning modules
- 7 short duration courses developed
- 14 pilot workshops
- Train the Trainer network - 10
- Updates to 13 Offsite e-learning materials
- Engagement with construction colleges via MTC and NOCN

CITB FIR
Grant
£135K

Must deliver

- 500 employers engaged
- 450 learners at 22 short duration courses
- 100 ambassadors recruited
- 8 ambassadors training events
- 80 learners at train the trainer
- 1 x e-learning
- 4,000 visits to FIR Toolkit site
- 4 x case studies
- Annual evaluation
- £50k of funding from the School

Spend Summary: Budget 2019/20

Actual 2018/19	Budget 2019/20	Activity
151,000	132,750	Construction
143,000	145,400	Homes
153,000	148,700	FM
149,500	147,450	Infrastructure
144,500	48,600	Offsite
0	214,050	Offsite CITB Funding Costs
192,300	178,676	Fairness, Inclusion & Respect
124,000	108,350	Wales
45,000	100,500	Scotland Sector Manager & Officer
9,000	0	Resources (Materials)
80,000	120,000	Category Groups x 3 (Plant, Labour, Waste)
0	30,000	Wellness SIG
15,000	15,000	SIGs x 1
55,000	80,500	IT Platform
15,000	16,000	Horizon
20,000	20,000	Research – core budget
170,000	170,000	Management
60,000	60,000	Travel
12,000	15,000	Disallowed VAT
0	20,000	Contingency
1,520,300	1,770,976	Total



Approve Business Plan

The Partners are asked to approve the Business Plan 2019 / 2020 as previously circulated and presented by Ian Heptonstall today.

1 - Yes

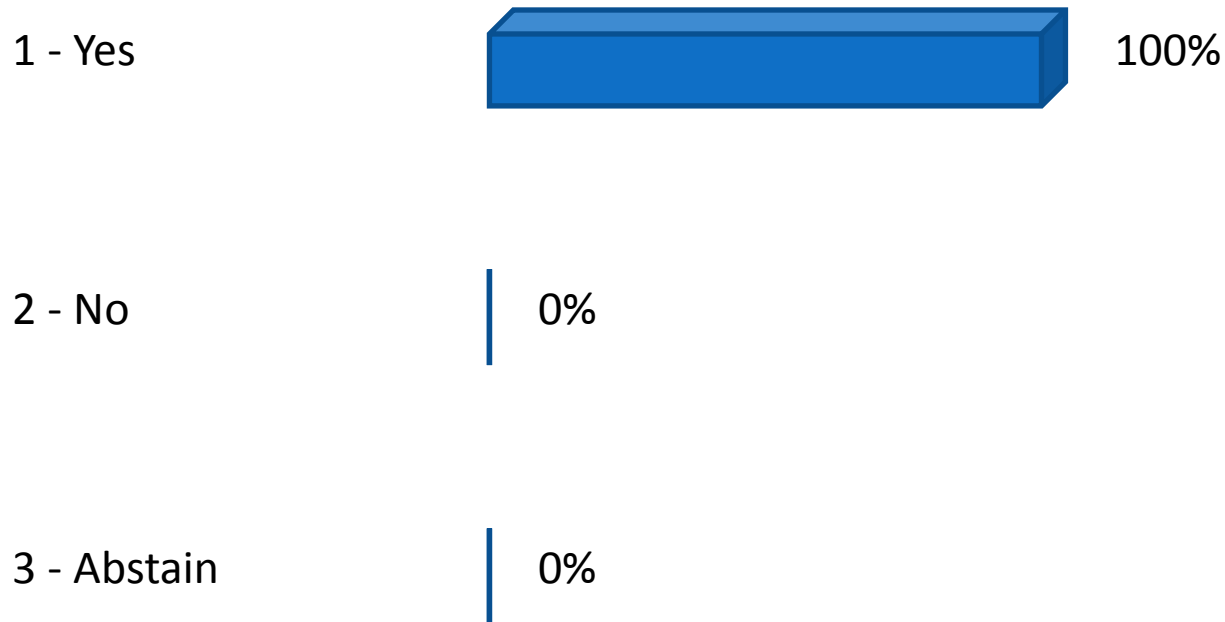
2 - No

3 - Abstain

Please note only 1 vote per Partner

Approve Business Plan

The Partners are asked to approve the Business Plan 2019 / 2020 as previously circulated and presented by Ian Heptonstall today.



5. School Strategy 2025

Dale Turner
Board member



○ **'Upper School' concept**

- *seeks to inform of future trends. To move the School from 'Primary' (must have knowledge) to a 'University' (future knowledge).*
- *links with unlocking funding opportunities e.g. Innovate UK.*
- *School provides the industry time and engagement which academics struggle to engage with. Resource required who understand funding landscape.*

○ **Certified Accreditation Provider:**

- *Qualification in Sustainable Construction (e.g. NVQ level xx) to formalise what we already do. Would involve working with a certification body.*
- *The School will not be an apprenticeship provider – it is a crowded market and wrong audience.*

○ **Ambassador Network**

- *Establish a network of subject matter ambassadors among partners, similar to the FIR programme.*
- *Provide them with training in soft skills and learning content they can deliver in house or to members.*
- *Encourage them to network and learn through the School.*

○ **Partner Relationship Manager**

- *More emphasis on driving the Partner Maturity Matrix to encourage partners to drive increased membership.*
- *ensure value to increasing number of Partners is given – major part of the retention plan.*

Welcome to the new School platform

WENDY CARWARDINE

Meeting your clients' sustainability requirements

We can help you to build, maintain and operate more sustainable buildings, infrastructure and homes.

Simply **register**, select your **country**, your **subject**, your **area of supply**, and our **Partners you sell to** and we'll link you to our award winning resource library that comprises e-learning, films, tools and learning resources with best in class knowledge on **sustainability**, **offsite construction** and **management** techniques to help you lead and embed change.

School in Numbers

2,473
Resources

119,332
Resources accessed

3,075
Member Companies

5,800
Individual Members

84
Partners

34,113
Registered Users



Sustainability



Offsite Construction



Management



Fairness, Inclusion & Respect
- promoting a better workplace for everybody.



Modern Slavery - resources to help you comply with new legislation.



CPD accredited e-learning & workshops - to support your professional development.

Our Partners inspiring a more sustainable built environment

The School is a collaboration between clients, contractors and 1st tier suppliers who have a mutual interest in building the skills of their supply chain. They pay for the School, so it's all FREE for you.

World Class, Collaborative Learning

The School is a collaboration between clients, contractors and first tier suppliers who want to build the skills of their supply chains.

[OUR PARTNERS](#) >



Search our catalogue of free learning resources

Search All Learning



[ASSESS NOW](#) >



[RESOURCES FOR YOU](#) >

Our members love learning with us

Why the Supply Chain Sustainability School works

[ABOUT US](#) >



We Share

We share knowledge and resources and our direction is led by our Partners and members.



We Deliver

We deliver measurable impact through dynamic leadership.



We Inspire

We inspire our members and Partners to drive positive change.



We Exemplify

We exemplify respect for the planet, our colleagues and wider society.



FREE Workshops

We offer free learning opportunities to build skills to deliver a sustainable built environment.



Individual Learning

Our learning is tailored to individual companies to ensure best practice in all fields.

SUSTAINABILITY



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Join Morgan Sindall Property Services' Supply Chain!

Attend their Meet the Buyer event in London on 15th - 16th January!

Find out more



Backed by the UK's top construction contractors and clients, the School helps you meet the challenging targets set out by the UK Construction Strategy 2025.

The School provides **FREE practical support** in the form of **CPD accredited** e-learning modules and training workshops, tailored self-assessment and action plans, bench-marking tools, networking opportunities and access to thousands of online resources.

Benefits reported by our members include; **cost & time savings**, **business won**, **increased competitive advantage**, **reduced risk** and **enhanced reputation**. To benefit undertake our quick self assessment which links you to our world class resources.

[Click to find out more about the School.](#)

Construction School Partners



Video

Video

Benchmark your knowledge



Sustainability

Sustainability addresses the social, environmental and economic challenges we face in today's ever-changing world.

Search our catalogue of FREE training resources

Search All Learning



Leading the way, sustainably

Search All Learning



Benchmark Your Knowledge

Complete our **free** self assessment to get your bespoke action plan today.

GET STARTED >

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Click on a Sustainability topic below to learn more.

Our key topics within Sustainability

ALL RESOURCES >

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Toolbox Talks

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e-learning modules



tools



supplier days



videos



workshops



web pages



documents

CPD Accredited Resources

There are **1,000's of CPD accredited resources** in the School. You can search by [sustainability issue](#), by market (e.g. Construction, Homes, FM, Infrastructure and Offsite) by type of resource and by level of learning.



Hundreds of free resources

All are free for our members; you can access them by diving into a certain area e.g. environmental management (using our Issues page), or by resource type e.g. videos (using the green icons above).



Come to a free event!

The School offers a wide range of free events from training workshops to supplier days all across the country. Sign up for one today!



Collecting CPD points?

We offer a wide range of CPD accredited e-Learning modules on every topic from biodiversity to engaging a diverse supply chain. View the entire suite of e-Learning here!

Video



'The Showreel'- Supply Chain Sustainability School

Video



How the School works

Forthcoming Events

Kier Highways Supply Chain Event

3rd April 2019 | The Studio, 7 Cannon St, Birmingham B2 5EP

What are you looking for?

COMPETENCY ▾

TOPIC ▾

SUBTOPIC ▾

MARKET ▾

FORMAT ▾

RATING ▾

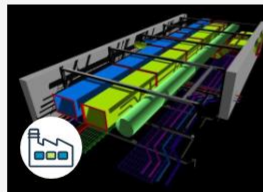
All resources

Showing 12 of 2456 results



BIM for Dummies

BIM for Dummies series contains five fast-paced and fun videos



Functional Requirements Spec & System Design at GM

Functional Requirements Specification and System



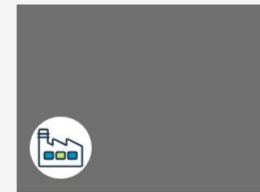
DfMA - Byrne Group Case Study

Design for Manufacture & Assembly- Byrne Group Case Study, Heathrow Terminal ...



Change Revision Control & PFMEA

Webinar PowerPoint presentation Greg of IPI solutions



Construction Quality Control with RFID

Building the Future for Construction Quality Control with Radio Frequency ID



Bill of Materials

Bill of Materials are used for working out the cost of a complex assembly



Waste: A Contractor's View

Lend Lease's journey in waste reduction in their construction projects



Waste: The Waste Hierarchy

It can be applied to any construction project in order to reduce of waste



Water: An Introduction

Why it is important for the construction industry



Water: A Contractor's View

Richard Hirst, Sustainability Manager at Skanska, explains how the supply ...



Water: The Water Hierarchy

Richard Hirst, Sustainability Manager at Skanska, explains how the supply ...



Skanska's Journey to Deep Green

Sustainable Construction: Skanska's Journey to reach their sustainability ...

[See more](#)

[See more](#)

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Show more



Corporate Use

- REMINDER EMAILS WHEN MEMBERSHIP LEVEL DUE TO DROP
- AUTOMATIC EMAILS WHEN A COLLEAGUE REQUESTS TO JOIN THE CORPORATE ACCOUNT
- DISTRIBUTE RESOURCES IN AN ACTION PLAN TO YOUR COLLEAGUES
- VIEW “USER PROFILES” WITHIN YOUR CORPORATE ACCOUNT
- REMOVE HISTORIC USERS FROM YOUR CORPORATE ACCOUNT WITHOUT DELETING ASSESSMENT INFORMATION



Company Dashboard

- VISUAL DASHBOARD
- VIEW SELF-ASSESSMENT RENEWAL DATES
- MEMBERSHIP LEVEL HIGHLIGHTED ON CORPORATE DASHBOARD HOMEPAGE
- VIEW PROGRESS TOWARDS NEXT MEMBERSHIP LEVEL
- CUMULATIVE INFORMATION ON COMPANY ACTIVITY
- MONITOR COMPANY PROGRESS AGAINST INDUSTRY STANDARDS
- NOTIFICATION OF CLIENT REQUIREMENTS



Individual Use

- ABILITY TO VIEW PAST ACTIVITY
- TRACK PROGRESS AGAINST INDIVIDUAL ACTION PLANS
- CPD CERTIFICATES STORED IN DASHBOARD
- REQUEST ADMIN RIGHTS FROM COLLEAGUES
- TAILORED PROGRESSION PATHWAYS
- ABILITY TO RANK / RATE RESOURCES
- ADD EVENT REGISTRATIONS TO YOUR PERSONAL CALENDAR AND CANCEL ATTENDANCE
- MAINTAIN YOUR INDIVIDUAL LEARNING LOG WHEN MOVING COMPANIES



Internal Use

- **SINGLE SIGN-ON**
- **ASSIGN ROLES TO COLLEAGUES (E.G. PARTNER DASHBOARD ACCESS)**
- **REQUEST DASHBOARD RIGHTS FROM COLLEAGUES**
- **VIEW COLLEAGUES AND UNDERSTAND THEIR ENGAGEMENT WITH THE SCHOOL (E.G. LEADERSHIP GROUP PARTICIPATION, PROCUREMENT SIG)**



Priority Suppliers

- **UPLOAD / MANAGE YOUR OWN PRIORITY SUPPLIER LISTS**
- **UPLOAD / MANAGE YOUR OWN BUSINESS UNITS AND SUB-BUSINESS UNITS**
- **DOWNLOAD, EDIT AND RE-UPLOAD PRIORITY SUPPLIERS LIST**
- **SET SPECIFIC LEARNING JOURNEYS / EXPECTATIONS FOR PRIORITY SUPPLIERS AND MONITOR ACHIEVEMENTS**
- **REWARD PRIORITY SUPPLIERS WITH BADGES / CERTIFICATES**



LMS

- **HOST YOUR OWN E-LEARNING MODULES IN YOUR CORPORATE DASHBOARD**
- **ALLOCATE RESOURCES TO COLLEAGUES FOR COMPLETION AND TRACK PROGRESS**
- **SEND REMINDERS FOR COLLEAGUES / PRIORITY SUPPLIERS TO COMPLETE RESOURCES**

Let's go!

7. Facilitated table discussions

Facilitated discussions on Special Interest Groups subjects:

- a) *Plant – James Cadman*
- b) *Labour – Helen Carter & Jackie Cuthbert*
- c) *Waste – James Cadman*
- d) *Wellbeing – Ian Heptonstall*
- e) *FIR – Tolu Oke*
- f) *Offsite – Charles Naud*
- g) *Procurement – Shaun McCarthy & Nathalie Ritchie*

Plant Category Group

James Cadman & Chris Matthew

Plant Category Group



NRMM Proposed Standards

Plant	Proposed minimum standard for 2019	Proposed
Small Plant and Tools*	≤50% petrol / diesel motor ≥50% cordless / battery	≥3
Lighting Towers*	Eco-engine (≤0.55 L / hr) & LED lumieres **	
Small Plant <3t †	Stage III B	
Medium Plant 3t – 13t †	Stage III B Stage IV	
Large Plant >13t †	Stage IV	
Generators*	Stage III A	

** location dependent

Appendix 5. A Guide to Alternative Diesel Fuels and Efficient Use of Oils

Alternative Diesel Fuels – An Introduction

There is growing awareness of the impacts of using conventional diesel as fuel for vehicles and machinery for two key reasons. Firstly, the combustion process leads to air quality emissions, nitrogen dioxide (NO₂) and particulate matter (PM) in the main, that cause health impacts. Secondly the CO₂ emissions that are a direct consequence of burning fossil fuels and the associated climate change impacts. In response to this many local authorities and construction clients have set requirements on tailpipe emissions to reduce the impact on air quality by demanding cleaner burning engines.

Switching to non-hydrocarbon power sources, such as batteries or solar to power your vehicles and plant is one solution, but this isn't always possible due to cost, availability or applicability. There are however two very good liquid fuels that 'bridge the gap' between conventional diesel and other 'cleaner' forms of power. This Guide provides information and guidance on the alternatives available and their benefits.

The Alternatives – Two Paraffinic Fuels to Bridge the Gap

- GTL (gas to liquid), a relatively new paraffinic fuel. Like conventional diesel, GTL is a hydrocarbon fuel made from non-renewable sources. However, it is made from waste gases from refinery plants, often methane, that are otherwise flared off. These waste gases are combined into longer chain hydrocarbon molecules that become the liquid diesel fuel;
- HVO (hydro-treated vegetable oil) is a renewable fuel made from waste vegetable oils that are converted into a usable biofuel. The process to make HVO differs from standard biofuel in two ways: the feedstock is waste stream rather than crops grown for biofuel, and the transformation process results in a fuel that burns more cleanly and more efficiently than other biofuels;
- Both fuels have a new euro standard classification as a paraffinic fuel: EN15940;
- HVO will also be certified as a renewable biofuel in its own category currently being assessed by The Department for Business Energy & Industrial Strategy (BEIS).



The Benefits of Switching Fuels

- GTL and HVO reduce air quality NO_x and PM emissions. Using them in your vehicles and plant means you are more likely to meet your client's emissions limits. Data shows that using GTL in plant reduces NO_x by 6-25% and PM by between 10-90%¹.

Size of renewable new materials, million tons



¹ Shell GTL Fuel Benefits Guide



Construction Equipment

NRMM Proposed Min. Standards

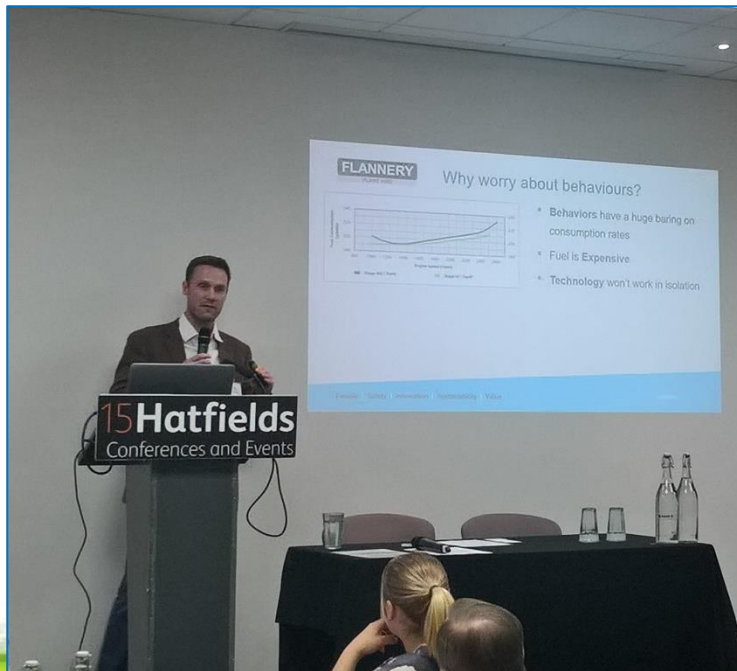


Plant	Proposed minimum standard for 2019	Proposed minimum standard for 2022* / 2025 [‡]
Small Plant and Tools*	≤50% petrol / diesel motor ≥50% cordless / battery	100% cordless / battery
Lighting Towers*	Eco-engine (≤0.55 L / hr) & LED lumieres **	≤67% Eco-engine (≤0.55 L / hr) & LEDs ≥33% Eco-engine (≤0.55 L / hr) & LEDs plus battery hybrid &/or PV **
Small Plant <3t †	Stage III B	Stage V or electric
Medium Plant 3t – 13t †	Stage III B	≤33% Stage III B ≥67% Stage V
	Stage IV	Stage V
Large Plant >13t †	Stage IV	≤33% Stage IV ≥67% Stage V
Generators*	Stage III A	Hybrid generator for welfare cabins Stage III A with cleaner fuels elsewhere

** location dependent

Supplier Day 22nd March

- 95 attendees
- Speakers: HS2, Skanska, Volvo, Flannery & WP Group + networking



Next Steps

- **Get Partner Approval and Commitment to the Minimum Standards** – a signed Charter
- Raise awareness, **roll out and embed** the Minimum Standards
- **Engage other stakeholders** more widely
- Collaborate on **operator behaviours** to reinforce the technological solutions approach

Labour Category Group

Helen Carter & Jackie Cuthbert

Who we are & What we are doing?

- ✓ Labour Group made up of the following partners – VGC, Danny Sullivan, Fortel, Skanska, Morgan Sindall, TfL, National Grid, Network Rail, O’Neil & Brennan, Sisk, Kier, Bouygues, Aggregate Industries, Sir Robert McAlpine, Vinci, Morsons, McGinleys, Flannery Plant, Murphys Group, Highways England, Hercules, Costain, Volker Wessel, HE Simms, Menfor Group – **(26 partners !!!!! – 31% of our partnership)**
- ✓ Focusing on issues relating to labour in our industry
- ✓ 2 main areas of focus;
- ✓ What standards should organisations have in place to manage and develop their people (People Matter Charter)
- ✓ What are the current issues in relation to supply and what does the future skills landscape look like
- ✓ Over the last 12 months the first area of focus has been addressed
- ✓ Next year – 2019/2020 the charter will be refined and rolled out and the supply and demand element will be the next area of focus.

“People Matter”

- ✓ Organisations must be able to demonstrate due diligence processes are in place to ensure that their own and temporary labour is not subjected to exploitation
- ✓ Organisations must be able to demonstrate that all the recruited labour and any temporary labour provided has the right to work in this country
- ✓ Organisations must be able to evidence that they are implementing an Equality & Diversity / Fairness, Inclusion & Respect (EDI / FIR) policy that includes objectives at least equivalent to legal minimum requirements
- ✓ Organisation have a plan in place to move towards becoming accredited Living Wage employers
- ✓ Organisations sign up to the ETI Base code and embed the main requirements within their recruitment and personnel management procedures
- ✓ Organisations to have employment, skills and training strategies in place with accompanying implementation plans
- ✓ Organisations to evidence how they ensure that their employees and temporary labour employees are subjected to environmental tool box talks and inductions. Highlighting their role in delivering of environmental safety and/or excellence when working on construction sites
- ✓ Organisations must be able to ensure that whatever payment mechanisms are in place for employment, all staff have access to benefits such as sick, holiday and maternity pay. Where payment mechanisms are providing cheaper options companies will be subjected to additional checks to ensure that the payment mechanism is not a front for exploitative practices. Umbrella organisations be able to evidence compliance with legislation and best practice standards set out by industry.

Waste Category Group

James Cadman



Waste Category Group



To Discuss in Groups

1. What are the key issues – risks and barriers – with waste and resource efficiency / circular economy relevant to built environment?
2. Which materials / waste streams are of concern / priority? *
3. What measurement issues are there with waste that we can tackle? **
4. Who are the key stakeholders, why, and how they should be engaged?
5. Who else should be in this Group: new Partners?
6. What outcomes do you need for you and your Supply Chain?
7. What material *outputs* do you need, including learning & development?
8. What subgroups might we need, e.g. plastic packaging?
9. Opportunities, innovation and other issues & ideas

* “Certain materials in the construction and demolition sector – The full list of products and materials in scope are yet to be defined, and will be subject to further review and consultation”, Defra Waste Strategy section 1.1 p.39

** Defra waste strategy: measurement to move away from tonnages to environmental impacts based on GHG emissions and Natural Capital impacts. Defra Waste Strategy section 3.2 p.77

Proposed Approach

To divide the work into three sub-groups with representatives from each of the School's 'Markets' working in each subgroup

Mapping & materials				
Procurement & supply chain engagement				
Measurement & Reporting				
	Infrastructure	Homes	Commercial	FM

Doing so will enable consistency across the sector and allow for each Market to make its contribution

Wellbeing

Ian Heptonstall

The two elements of wellbeing

Two potential areas of focus

Workers

On site, in offices,
in supply chain

- Suicide leading cause of death of men <50
- Low skilled trades 3 x higher
- Skilled trades 2 x higher
- 12.5m days lost to stress related issues

Current provision

- Many Partners already active in this area
- Mates in Mind
- CECA – Stop make a change
- FIR toolkit

Users

Of the built
environment

- 90% of our time indoors
- Well building standard emerging
- Linking productivity to asset cost – can it be done?
- World GBC – have evidence to say yes

Current provision

- The Well standard
- UKGBC

Fairness, Inclusion & Respect

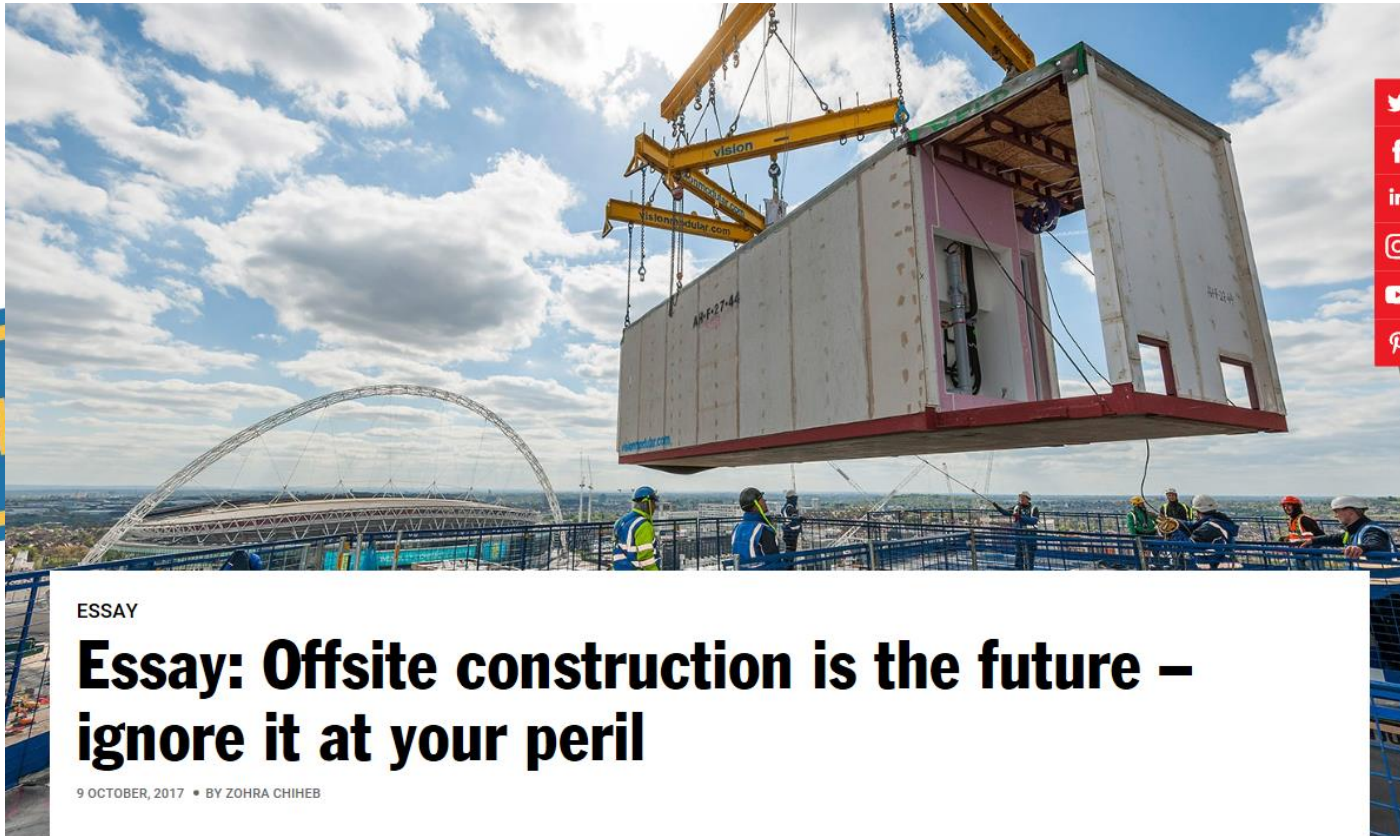
Tolu Oke

FIR Programme Highlights 2018 - 2019



Offsite

Charles Naud



ESSAY

Essay: Offsite construction is the future – ignore it at your peril

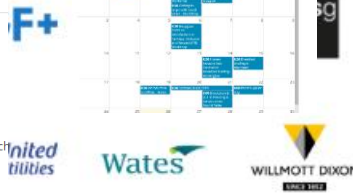
9 OCTOBER, 2017 • BY ZOHRA CHIHAB

Source: <https://www.architectsjournal.co.uk/buildings/essay-offsite-construction-is-the-future-ignore-it-at-your-peril/10023964.article>

Offsite

E-Learning Modules

Beginners	Intermediate
<p>DfMA: Design for Manufacture and Assembly</p> <p>Time 45 minutes</p> <p>An excellent introduction into the benefits of DfMA and the use of offsite construction techniques. Includes case studies, business case and link to RIBA Plan of Works</p>	<p>Best in Class Maintenance</p> <p>Time 60 minutes</p> <p>This 1 hour covers the issue of Best in Class Maintenance and how it can extend the life of a project, create efficiencies and reduce downtime.</p>
<p>Design: Product & Process for Manufacturers</p> <p>Time 60 minutes</p> <p>This module is aimed at offsite manufacturer and outlines how they can benefit from lean manufacturing processes.</p>	<p>Logistics</p> <p>Time 60 minutes</p> <p>This module discusses how an offsite manufacturing approach changes construction logistics.</p>



1. An intro to offsite & DfMA
2. Enabling offsite through BIM
3. Optioneering



Employer offsite leadership group

<p>View</p> <p>Bryden</p> <p>Offsite Manufacturing Process</p> <p>Time 60 minutes</p> <p>This module will discuss the benefits to offsite manufacturing, and the shift in industry it's causing.</p> <p>View</p>	<p>View</p> <p>Onsite Process</p> <p>Time 60 minutes</p> <p>Now that you have designed, manufactured and delivered your parts and products to site, it's time to assemble them. This module discusses the onsite process.</p> <p>View</p>
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- + Offsite design
- + Offsite procurement
- + Offsite for cost consultants and quantity surveyors
- + Offsite project management
- + Offsite for site managers
- + Offsite for assembly technicians
- + Offsite logistics

Procurement

Shaun McCarthy & Nathalie Ritchie

8. Any other business

Shaun McCarthy