

A New Era In Technology Collaboration: Joining Forces For Faster Innovation



Introduction



Tommy Linstroth Green Badger Founder & CEO LEED Fellow



Green Badger



Siavash Mohseni Hensel Phelps Senior Innovation Manager





Today's Discussion

- How ConTech innovation is changing
- How Hensel Phelps/DIVERGE has adapted to leverage new opportunities
- What does collaboration with GCs/tech suppliers look like now
- Discuss the growth of CVC in the industry



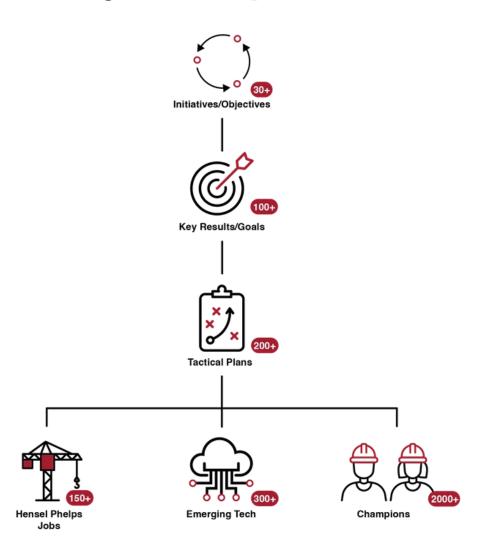
Strategic Innovation Planning





Strategic Innovation Planning

Major Components



How



- Diverge Initiatives
- Internal Partnership
- External Partnership

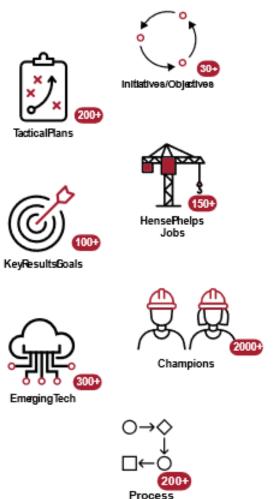
Strategic Planning

0	♥ Plan	Type: Objectiv	e 🔻 🕀 🗀 Group By: None 🔻 🔟 🖓 🔻		<u>+</u> +
	٨	Tactical Plan	NC Name	↑ DIVERGE Lead Prioriti	zation S Priority
	0	100	DIVERGE Initiative Additive Manufacturing	Lopez, Richard E	0 (2) Medium
	0	200	> DIVERGE Initiative AI (14)	Mohseni, Siavas	54 (2) Medium
	•	300	DIVERGE Initiative Airport of the Future	Mohseni, Siavasl	49 (2) Medium
	0	400	DIVERGE initiative Block Chain	Lopez, Richard E	0 (2) Medium
	•	500	> DIVERGE Initiative DCOF (18)	Lopez, Richard E	69 (2) Medium
	•	600	> DIVERGE Initiative ESG (4)	Nguyen, Thai Q	0 (2) Medium
	0	700	DIVERGE Initiative Hospital of the Future	Mohseni, Siavasi	49 (2) Medium
	0	800	DIVERGE Initiative Incubator Program	Nguyen, Thai Q	0 (2) Medium
	0	900	DIVERGE initiative innovation Center	Lopez, Richard E	0 (2) Medium
	0	1000	> DIVERGE Initiative IOT (5)	Mohseni, Siavas	41 (2) Medium
	0	1100	> DIVERGE Initiative Modular / Pre-Fab (3)	Lopez, Richard E	0 (2) Medium
	0	1200	> DIVERGE Initiative Planning and Scheduling (6)	Mohseni, Siavas	60 (2) Medium
	0	1300	> DIVERGE Initiative Robotics (14)	Somalwar, Mihir	61 (1) High
	0	1400	> DIVERGE Initiative Supply Chain (14)	Mohseni, Siavas	95 (1) High
	0	1500	> Events 2023 (6)	Nguyen, Thai Q	0 (2) Medium
	0	1600	External Advisory Board	Mohseni, Siavasi	49 (1) High
	•	1700	External Partnership AE	Mohseni, Siavash	49 (2) Medium
	0	1800	External Partnership General Contractors	Nguyen, Thai Q	0 (2) Medium
	0	1900	> External Partnership Shadow Venture (6)	Nguyen, Thai Q	0 (1) High
	0	2000	External Partnership Sub-Contractors	Mohseni, Siavasi	54 (2) Medium
	0	2100	> External Partnership Tech Companies (5)	Mohseni, Siavas	56 (2) Medium
	0	2200	> External Partnership Universities (5)	Nguyen, Thai Q	0 (2) Medium
	0	2300	> External Partnership Venture Capital (11)	Mohseni, Siavas	56 (2) Medium
	0	2400	Internal Advisory Board	Mohseni, Siavasi	45 (2) Medium
	0	2500	> Internal Partnership CIT (3)	Nguyen, Thai Q	0 (2) Medium
	•	2600	Internal Partnership Organizational Development	Nguyen, Thai Q	0 (2) Medium
	0	2700	> Internal Partnership Production Engineering (1)	Mohseni, Siavas	44 (2) Medium
	0	2800	> Internal Partnership QA/QC (3)	Mohseni, Siavas	61 (2) Medium
	0	2900	> Internal Partnership Reality Capture (3)	Mohseni, Siavas	24 (2) Medium
	0	3000	> Internal Partnership Talent Acquisition (4)	Nguyen, Thai Q	0 (2) Medium
	0	3100	> IInternal Partnership VDC (II)	Lopez, Richard E	0 (2) Medium



Components of Strategies







Prioritizations and Values



Risk Reduction

Safety, Quality Control, Project delays

Productivity Increase

Labor Shortage, do more with less

Cost Savings

Increase margin, reduce cost for our partners

Investment Opportunity Direct investment or through our LP

Improve Employee Retention Be part of Hensel Phelps's innovation culture

Strategic Alignment Alignment with APG and direction of company's innovation

Readiness technologies to be use in an initiative



Availability of Technology State of solution

Off the shelf Customized solution

Developed by technology partner

Developed by a start up in Diverge ecosystem

Ease of Implementation Experience

Previously implemented

Some experience

Brand new process implementation

People

Knowledge

Previously involved Some knowledge

- - -

Brand new to the initiative and innovation

4



Innovation Identity

	Visionary	Leading Innovator	Fast Follower	Late Adopter
Description	Significant R&D investment to invent new technologies and demonstrate possibilities	Advances newly developed technology before commercial success is found through pilots	Quick to adopt once a technology is proven to be a commercial success	Only adopts once technology is industry-standard and down the maturity and cost curves
Innovation culture	Flexible, start-up culture with a flywheel for innovation and change	Culture of innovation that is quick to adapt novel technologies	Established culture that is open to new ideas	Slow moving to change and adding new capabilities
Capability / Talent	Talent acquired from adjacent industries (e.g. Google / Microsoft and Amazon)	Talent can be poached from	SME groups can be used to assess and implement new technologies	Skilled labour, contractors, or trainiprograms more easily available for implementation
Initiative examples	VDC Software such as issue tracking, AR, MR 2015	Field applications for Daily report, Commissioning 2017	HP – adopted Cloud based PM solutions in 2019	Supply Chain Management, and Supply Chain Management Insight

strategy moving forward?



Legend - Value Commercially Viable Next Generation Production Tracking Prototype Concept Stage Labor & Equipment Schedule Integration Progress Tracking QA/QC Earned Value Supply Chain Estimate Integration Tracking Risk Reduction Productivity Increase Cost Savings Strategic Alignment Employee Retention Investment Opportunity Overall value End to End Platform **IOT** solutions Automated RC RC&3Dmodel Cloud based WBS Standardization WBS Standardization Tracking Systems Schedule- Man hour AI & object detection AI & Comparison ■ WBS Standardization ■ Contract Mandate Contract Mandate Readiness Assessment Integrations Schedule - Equipment Pull Planning Reports Priority focus Priority focus Priority focus Priority focus

Legend – Readiness



How did Green Badger "get in the door" and grow with companies like Hensel Phelps?

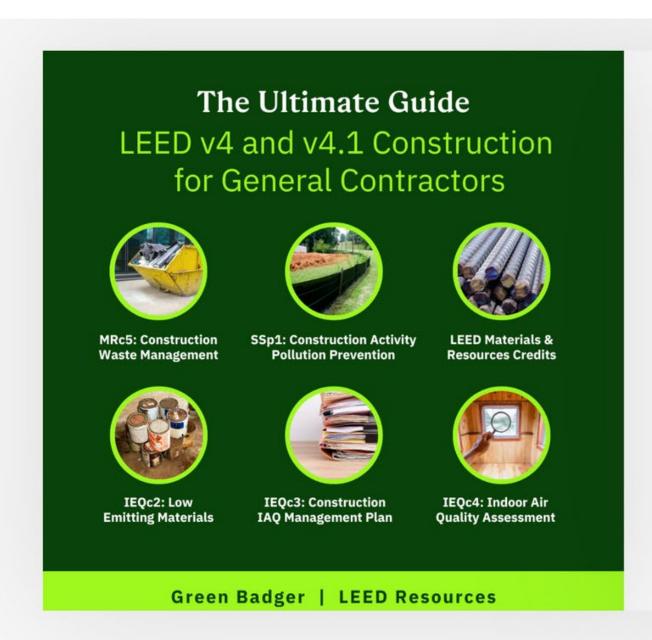












The Ultimate Guide to LEED v4 and v4.1 Construction Credits for General Contractors

The most comprehensive educational resource for general contractors, filled with practical guidance on how to achieve LEED construction credits.

It's essential for project teams to opt into LEED v4.1 for all the BPDO credits and for Low Emitting Materials. It may or may not be useful for Construction Waste Management, and won't make a difference for Construction Activity Pollution prevention or Indoor air quality management.

READ THE ULTIMATE GUIDE →



What best practices can help expedite or smooth the new tech learning curve?



#1
Have a Lauren





#2

SME (Subject Matter Expert)













You can't just sell into a company and expect success to happen on its own!

- 1. Have a Lauren
- 2.Develop Internal SMEs
- 3. Provide Digital Resources
- 4. Have a Formalized Feedback Mechanism



What tactics are needed to develop and deploy new technologies?



#1 Tactic To Facilitate Implementation....



Strong IT Security
Infrastructure





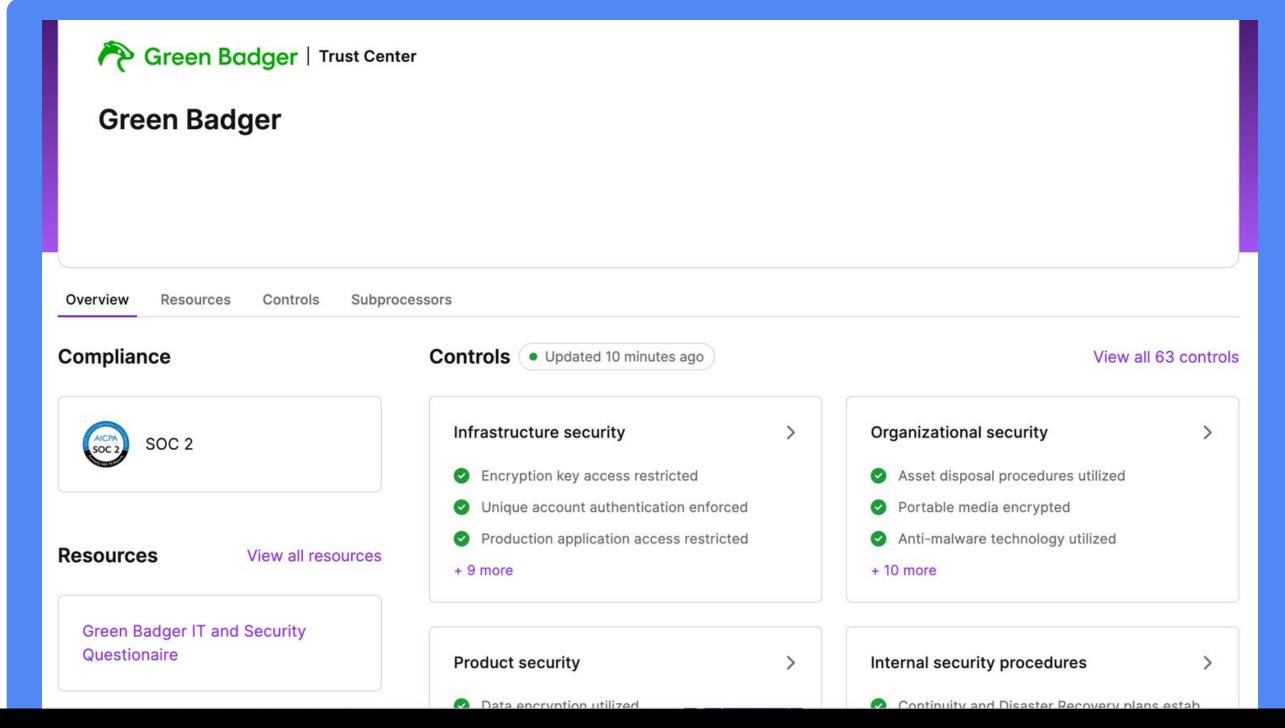


IT & Security Questionnaire

SaaS Vendor Questionnaire

Software name:	Green Badger (Green Badger Inc.)		
Description:	Green Badger is a comprehensive green construction compliance management software platform tailored to the unique needs of the construction industry. Our top priority is ensuring your critical data's security, integrity, and compliance. With Green Badger, construction companies gain a robust solution for managing green construction requirements – from LEED certification to ESG and everything in between. We are dedicated to taking security and compliance seriously, employing industry-leading practices to protect your data. Our cloud-based platform streamlines and automates green construction compliance, enabling you to confidently track, verify, and maintain compliance across projects and certifications. By choosing Green Badger, you're choosing a partner committed to safeguarding sensitive information while providing efficient, transparent, and user-friendly compliance management solutions.		
HQ Location:	Savannah, GA		
Sales Contact(s):	Kristin Brubaker; kristin@getgreenbadger.com Tommy Linstroth: tommy@getgreenbadger.com		
Customer Success Contact (if applicable):	Lauren Richardson: Lauren@getgreenbadger.com		







Suggested Remediation Items

	Item	Remediations
SEC	SEC1 - How do you securely operate your workload? SEC5 - How do you protect your network resources? SEC6 - How do you protect your compute resources?	 Implement / modify core AWS security services CloudTrail Configure a multi-region Trail Configure Data Events Configure log file validation Configure KMS encryption Security Hub Configure reporting using a suitable framework Configure EBS Default Encryption Encrypt existing EBS volumes Build a segregated public + private VPC structure Multi-AZ Public routes through IGW Private routes through NAT GWs Implement Secrets Manager for application-consumable secrets
REL	REL2 - How do you plan your network topology? REL9 - How do you back up data?	 Implement and configure AWS Backup for optimal RPO + RTO targets Separate monolithic network structures into Public + Private subnet groups



Strong IT Security Program

- Focus on security early
- Document efforts in an easily distributable format
- Establish a Trust Center to validate
- Utilize free resources to improve performance



