



Digital Dive Log and Competency

Presentation by Anthony Greenwood



Let's Go

A portrait of a middle-aged man with short, dark hair, wearing a blue blazer over a light-colored shirt. He is looking slightly to the right of the camera with a neutral expression. The background is a soft, out-of-focus grey.

Your Speaker for Today

Extensive Industry Experience:

- Over 30 years in commercial diving and oil & gas sectors.
- Expertise spanning military diving, surface-supplied diving, and saturation diving.

Leadership and Innovation:

- Architect of the Global Diving Centre of Excellence for ExxonMobil, covering operations in 35 countries.
- Founder of DSMS and Skill N Depth, pioneering companies focused on diving safety and digital competency.

Regulatory and Standards Authority:

- Served on multiple regulatory committees, including the International Maritime Organization (IMO), IMCA, ADCI, ABS and others, contributing to the development and revision of global diving standards.

Competency and Training Expertise:

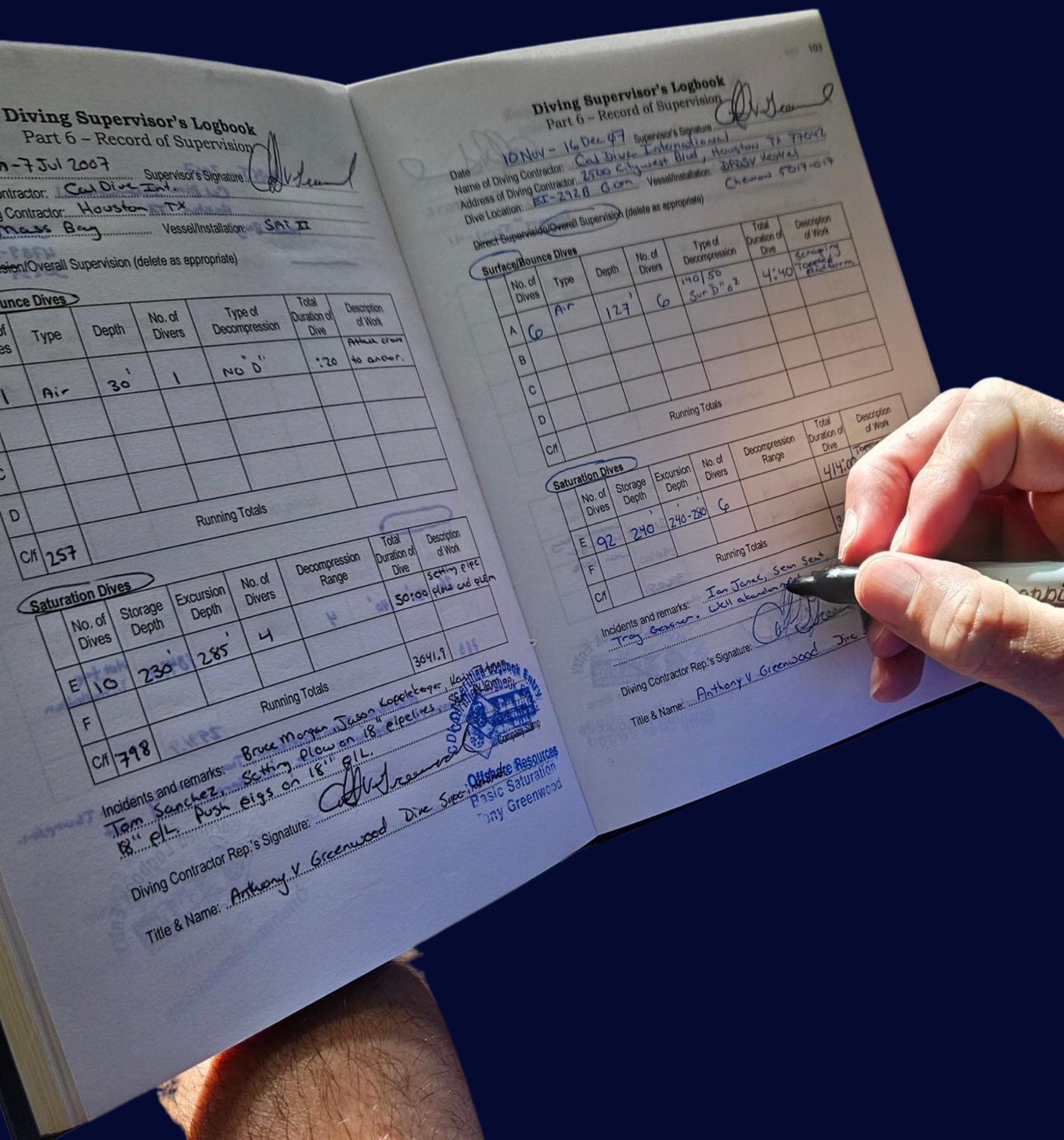
- Developed and implemented advanced diving training programs internationally.
- Secured numerous certifications and accreditations for safety and quality management systems.

Operational Excellence:

- Delivered 18 major offshore oil and gas capital projects worth over \$24 billion USD.
- Managed large teams, including 45 direct staff and 700 offshore contractor personnel.

What does the Dive Logbook currently do?





The Role of a Dive Logbook

- 01 Used as a personal portfolio to demonstrate the overall competence of a worker, recording training, skills, and experience
- 02 A legal record of a worker's training, medical fitness, and experience
- 03 Employers use it as a method to measure a worker's ability to perform specific tasks and activities.
- 04 Certification agencies utilize the log as evidence of experience needed to issue certifications
- 05 Clients often require logbooks as evidence of contractor personnel selection



EXPERIENCE

E



BEHAVIOR



KNOWLEDGE

E



PERFORMANCE



SKILLS



GOALS

What is competence?

01

A measure of knowledge, skill and experience

02

Ability for a worker to perform a specific task or activity to an expected outcome

03

In our industry, competence can be too broad, and should be more finite and detailed down to a specific task or activity

04

Employers, industry associations, and clients have competence schemes based on industry needs where diving is employed (Energy, Salvage, Civil Construction, Public Safety, etc.)

05

A dive team member lacking a specific skill or experience required to carry out a work task can be critical, and may lead to **inefficiency, injury or fatality**

Defining Competence

Challenges in our industry related to dive logs and competence

1. Divers and other critical personnel lack sufficient knowledge, experience and skills needed to perform an assigned task
2. Current paper-based logbooks do not allow the capture or display of data to show a worker's abilities with adequate details
3. Fraudulence
 - a. Fake diving certificates, identity theft, altering an issued certificate
 - b. Diving certificates being issued by authorities to personnel who submitted fake dive records
4. Paper-based data collection prevents, complicates and slows information transfer
5. Personnel simply not using logbooks consistently or appropriately
6. Losing logbooks and the data contained within



 **CDAS SAFETY FLASH 2023-06 |**

Fake Diving Supervisor Certificate



The Commercial Diving Association of Singapore (CDAS) reminds members to treat with caution, all certificates. The Association was recently made aware of a fraudulent Diving Supervisor's Certificate, allegedly issued by one of the MOM approved Learning Service Providers (LSP) being submitted to a company in Singapore to gain employment.

The Company concerned did their due diligence by referring to the originating LSP to verify the certificate and this was where the fake was identified. We have also been made aware of fakes being extended to yearly Diving Medical certificates.

CDAS had previously issued guidance to members below on how to check certificates and you may refer to the below for reference.

CDAS-GD-03 Verification of Certificates <https://www.cdas.sg/downloads/>

All members and interested parties are reminded that the Ministry of Manpower (MOM) treats the forging of training certificates and/or the furnishing of fake certificates as unethical and illegal activities that would be dealt with severely.

All members and interested parties are also reminded to exercise due diligence to verify certificates and other relevant documents for "new hires" before commencing employment. Divers and Supervisors should also be able to supply logbooks with their documented work experience, as required by MOM.



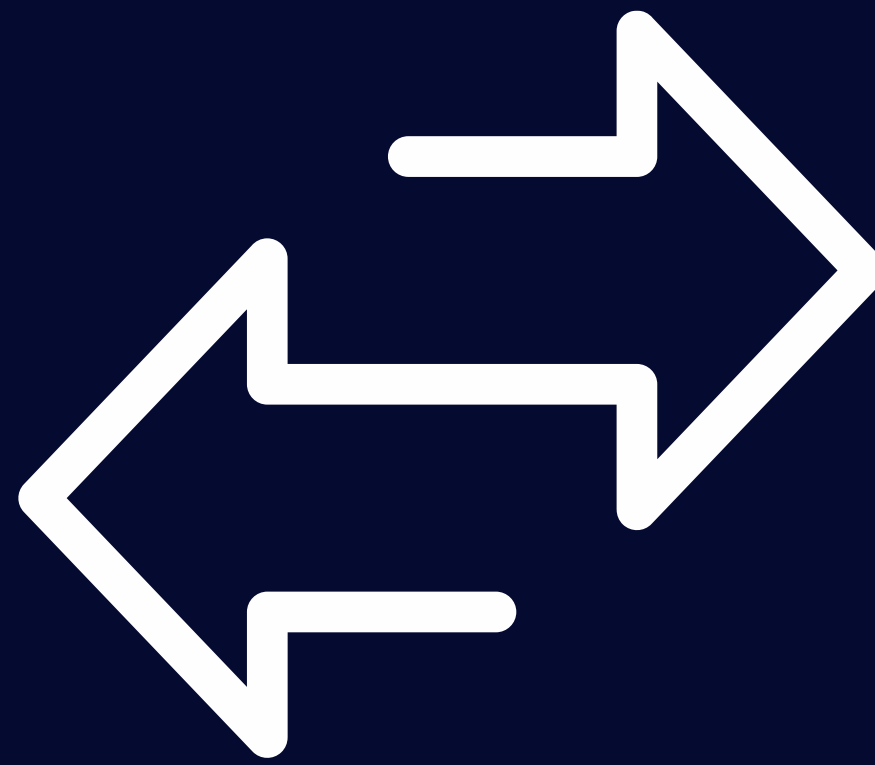


Why digitize the logbook?

The Case for Digitization



Mandatory Requirement: Logs are already required, so why not optimize?



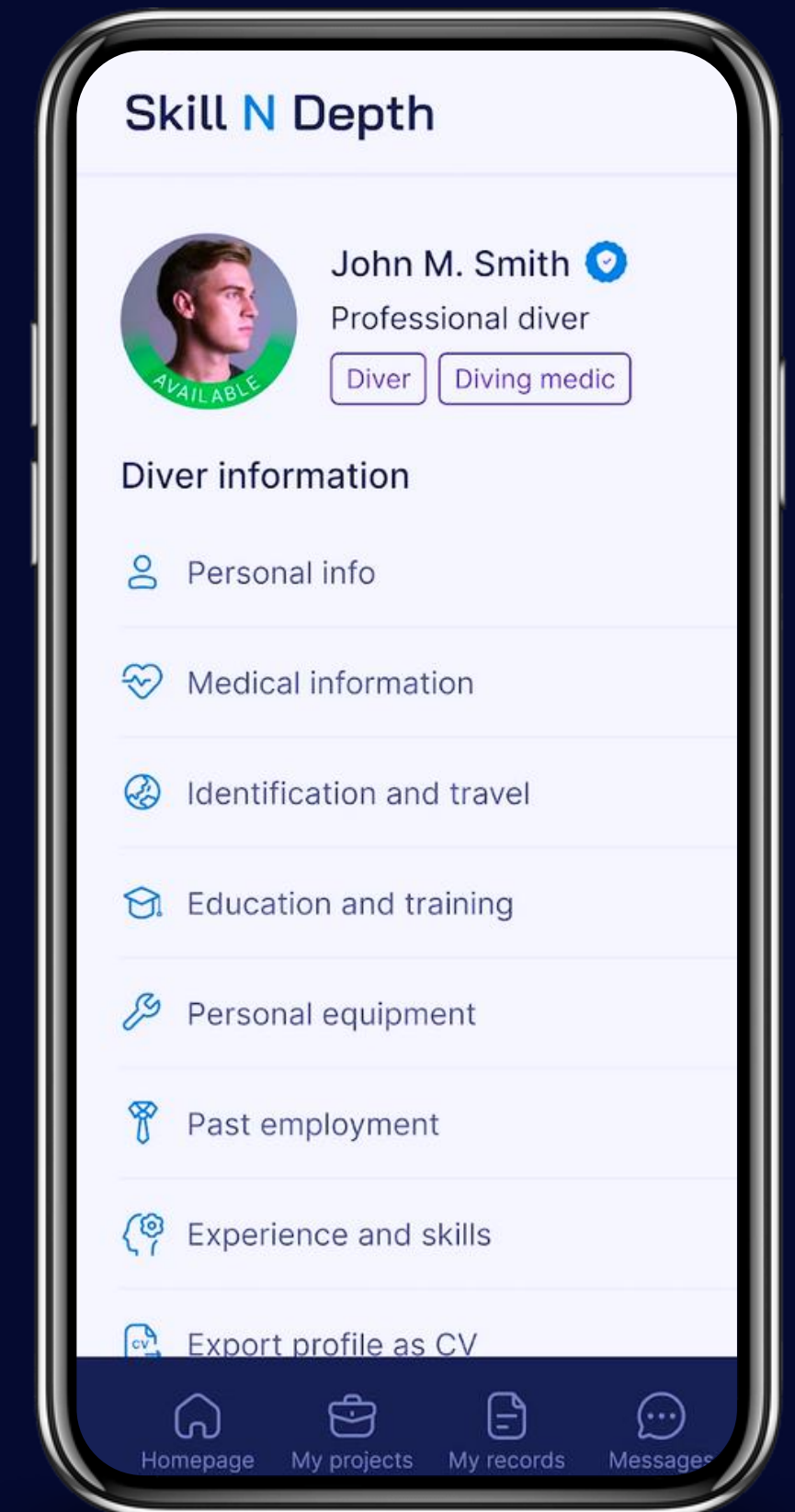
Efficiency: Faster and easier to update, retrieve, and analyze data.



Environmental Benefits: Reduction of paper use.

Benefits of a digital logbook

- **Increased Speed and Efficiency:** Digital logbooks streamline data entry and retrieval, reducing time spent on manual record-keeping and allowing for quicker decision-making.
- **Standardization of Skills and Terminology:** They ensure consistent documentation of skills and industry-specific terms, facilitating clear communication and understanding across the sector.
- **Improved Data Accuracy:** Automated data validation and real-time feedback reduce errors associated with manual entry, ensuring more reliable records.
- **Enhanced Fraud Prevention:** Digital systems offer traceability and secure records, reducing the risk of falsified information and unauthorized access.
- **Ease of Data Sharing:** They facilitate seamless sharing of information among authorized personnel, enhancing collaboration and compliance with industry standards.
- **Reduction of Paper Use:** Transitioning to digital logbooks decreases reliance on paper, contributing to environmental sustainability and reducing physical storage needs.
- **Prevention of Lost Records:** Utilizing cloud storage ensures data is securely backed up, minimizing the risk of loss due to physical damage or misplacement.



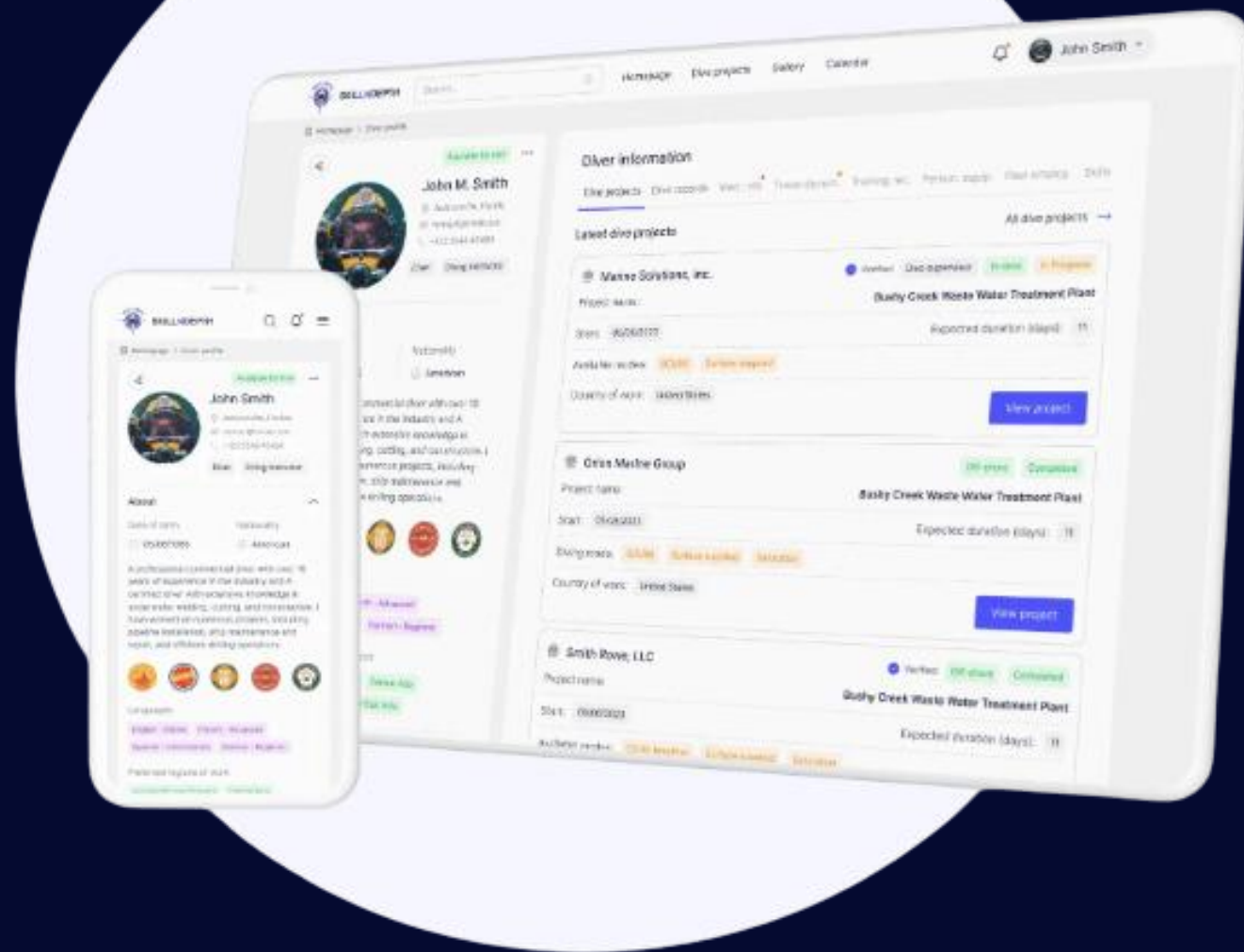


Potential Challenges with Digital Logbooks

- Data protection
- Competing formats and data entry requirements causing users to need several systems
- Sensitive worksites not allowing digital devices

**What minimum
features and
capability should
an E-Logbook
have?**

Essential Features of an E-Logbook



- Document portfolio for training, education, and medical fitness evidence
- Dive record entry forms which incorporate all diving industry minimum standards
- Electronic and digital signature (Endorsement) methods
- Traceability and digital fingerprinting of data entries and endorsements
- Ability to work online and offline of internet connections
- Ability to incorporate experience and records from previous projects and employment
- Capable of integrating regulator and industry association competence schemes
- Network interface capable (API)
- User data and identity protection measures to meet GDPR, POPIA and national regulation
- Allow audit and assurance of system integrity by authorities and third parties.

To connect on Linked In



AG@SkillNDepth.com





www.SkillNDepth.com