



**NESH** :



A CASE STUDY  
FOR ENERGY COMPANIES

HELLONESH.IO

**How Shell Exploration  
captures and finds best  
practices from across the  
world and stopped re-  
inventing the wheel for  
every new project**

Our teams working in the Gulf of Mexico don't know what lessons were learned or what mistakes were made in the Caribbeans, Malaysia, or the North Sea. We start from zero each time. Having fewer geoscientists and a remote workforce makes things even harder

**- Leah Camilli, Exploration Digitalization Geoscientist, Shell**

Shell Exploration is part of the Shell Upstream Energy Division and has around 2500 employees worldwide. Shell exploration has operations in the US (Gulf of Mexico), Mexico, Trinidad and Tobago, Bolivia, Brazil, UK, Egypt, Oman, Nigeria, Malaysia, Brunei, and Australia.

Operations in these regions happen in a relatively siloed manner where one region isn't aware of the findings, best practices, and lessons learned in another region. Unless someone transfers over or the regional heads meet at a corporate event, knowledge doesn't flow freely between the regions.

In addition, 30% of Shell Exploration's employees have more than 20 years of experience. Each year many senior employees retire or resign from Shell and this creates an opportunity for knowledge loss. The experience of these senior employees is not fully captured and is difficult to replace. New members joining the team have a harder time onboarding. Existing team members, especially Executives have a hard time finding answers to technical questions. The retired employees are sometimes rehired as strategic consultants, at a higher compensation tier to address these challenges.

Over the past year, Shell Exploration has partnered with Nesh to capture this exploration project knowledge using AI-based Subject Matter Avatars. The product has demonstrated value in cost reduction from the ease of knowledge capture and recall, improved efficiency in analysis, and timely generation of insights to inform operational and business decisions.

## **Fast Facts**

Exploration is a key part of Shell's integrated global energy business. It delivers valuable resources in support of the company's strategic objectives for Conventional Oil and Gas, in Deep water and for the Integrated Gas business.

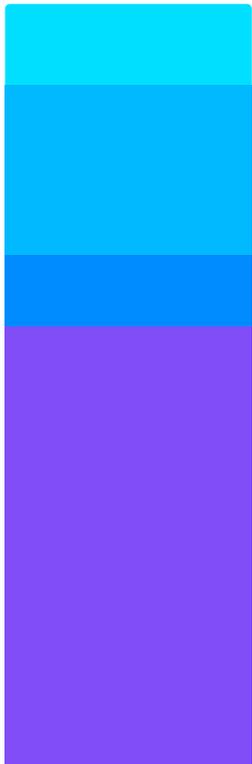
The Shell and Nesh team worked together to identify areas of expertise and knowledge that are critical to the exploration business function. Some of the sources that were identified included -

1. **Project Close-Out Reports**
2. **Project Presentations**
3. **Environmental Impact Reports**
4. **Waste Management Guidelines**
5. **Regional Policies and Standards**
6. **Regulatory Findings**
7. **SME Analysis**
8. **3rd Party Research**
9. **Partner Contribution**

Nesh was then connected to these sources and in **8 weeks** the AI system to trained to provide answers to highly technical questions.

## **Fast Facts**

Nesh helps companies preserve knowledge by turning their Subject Matter Expertise into "Subject Matter Avatars". So that when the experts in those teams are busy, go on vacation, move, retire or resign, the team members can still access their expertise by asking questions to the AI Avatar.



Total Value Created

**\$2,330,000**

Value Created by Reducing Burnout and Retaining Employees

**\$250,000**

Value Created by Lowering Project Costs

**\$520,000**

Value Created by Reducing Compliance Penalties

**\$220,000**

Value Created by Expertise Capture and Upskilling Newer Employees

**\$1,340,000**

## 95% Accuracy

Nesh reached an accuracy of 95% in 8 weeks. So for every 100 questions, Nesh produced accurate answers for 95 of them, as voted by the user

## Plan Faster, Better, and Cheaper

By understanding the range of global opportunities available in current assets quickly and easily, managers were able to optimize planning for new projects

## Superpower for Executives

Executives who need Regional Details, no longer have to wait for an expert and the latency in getting answers dropped from 3 days down to 20 seconds

I found working with Nesh to be a pleasure. They are wonderful! In just weeks they delivered on our internal needs. I'm looking forward to developing this further with them into other business units at Shell

**- Leah Camilli, Exploration Digitalization Geoscientist, Shell**

- **Company:** Nesh
- **Solution:** Subject Matter Avatars
- **Website:** [hellonesh.io](https://hellonesh.io)
- **LinkedIn Page:** [LinkedIn](#)
- **Contact :** Gordon Le Feuvre / [gordon@hellonesh.io](mailto:gordon@hellonesh.io)
- **Book a Demo:** [Schedule here](#)