

Preventing the Fall: Materials, Approaches, & IoT Solutions Targeting Reducing Dangers of Slip & Fall Accidents Associated With Slippery Surfaces

Technical Target Description

A risk management leader in the food services industry is seeking to connect with researchers, entrepreneurs, and startups working on Internet of Thing (IoT) technologies and processes for preventing slip and fall injuries.

Of high interest are **inexpensive sensor technologies or surface materials that can easily be integrated with non-digital equipment of all types** and coupled in an elegantly simple and reliable manner to track and **monitor desirable aspects of performance.**

Target applications might include but are not limited to:

- **PREVENTING** dangerous conditions from occurring;
- **DETECTING** when surface conditions create risk;
- **MONITORING** surface conditions of the floor;
- **TRACKING** location-based cleaning tracking device; and
- **IMPROVING** floor surface materials that can increase traction.

Curious to us are clever connected devices and materials that can be tied to risk reduction, worker safety, restaurant efficiency, and cost savings.

Background

Slips, trips and fall injuries account for nearly 20% of all workplace related injuries. Preventative solutions are seen as drastically reducing risk of injury through sensed surfaces and/or devices. The challenge is durable connected technology to report on non-digital cleaning processes in an IoT fashion to monitor and thus predict when maintenance is needed. The total impact of slips and fall injuries in the workplace is massive. Some [studies show that 1 in 6 of all lost-time work injuries result from slips, trips and falls; and cost employers approximately \\$40,000 per incident.](#)



Possible Approaches

Approaches from adjacent industries that join similar and/or dissimilar technology platforms or research approaches are of interest. **Sought are novel breakthrough, methodologies, approaches, and solutions extendable across an array of non-digital devices and processes to transform and connect the non-digital world to the IoT digital world.**

Approaches similar to those already being explored or in the market are not of interest (unless unique).

Appropriate Responses to This Request

Responses from companies (small to large), academic researchers, other research institutes, companies, consultants, venture capitalists, entrepreneurs, startups, or inventors are welcome.

Appropriate responses will address the following:

- Brief non-confidential description of proposed technology/system or research approach and estimated feasibility to demonstrate in the target application
- List of any relevant published research, patent applications, or issued patents.

How to Reply

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