I-CAP

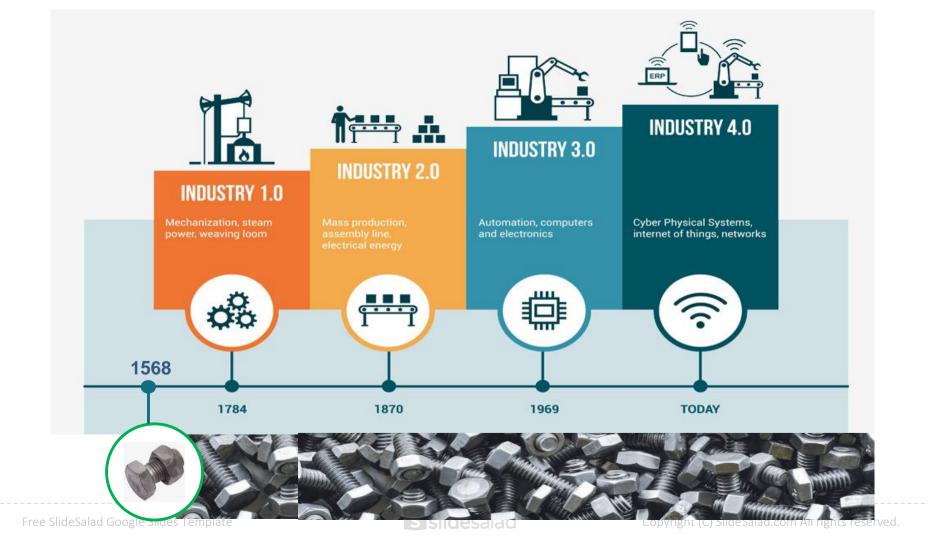
An intelligent CAP designed to indicate the status of a treaded bolt.

By Sadev Kalubowila,

Electronics and Telecommunication

Gradute,









I-CAP

A cap which is specially designed to monitor the status of a threaded bolt and alarm the user when required. It has every need to monitor the failed bolt, alarm the user and locate it to the user.

MECHANISM









FIGURE 1

A well tightened bolt

i-CAP only shows

Luminous Green colour...

FIGURE 2

Initial loosening of the bolt

**Note the Luminous Red

DANGER

FIGURE 3

The bolt has loosened more.

Visible area of the Red colour has increased.

FIGURE 4

A high-risk bolt

Whole area becomes RED after complete loosening of the 1st round.

DANGER

DANGER



i-CAP HUB

FEATURES





2 x AA Alkaline Battery



More than 475days battery life



Multi-Sensing

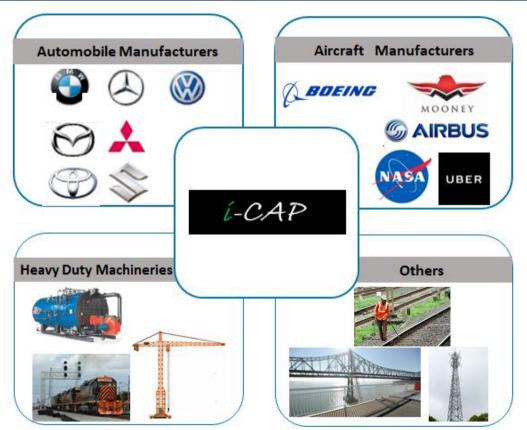


Wi-Fi



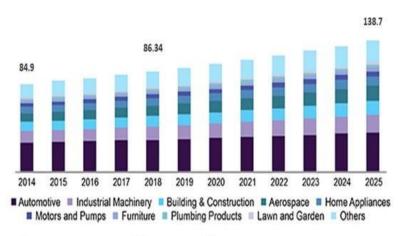
Dashboards

INTERESTED PARTIES



MARKET SIZE

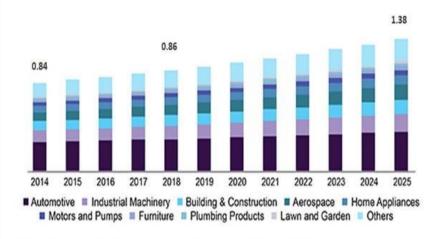
Global available market on fasteners, by application, 2014-2025(USD Billion)



Source: www.grandviewresearch.com

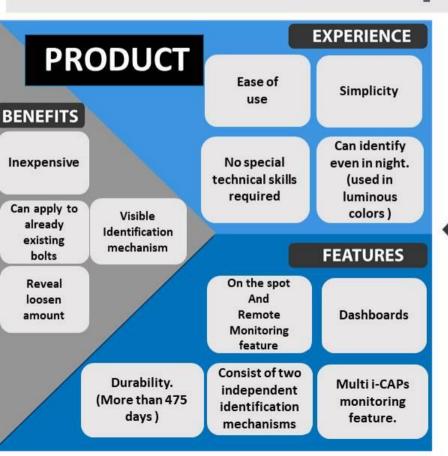


Serviceable available market on i-CAPs, by application, 2014-2025(USD Billion)



Servicable available market = Global available market x 1%

Value Proposition Canvas





THANK YOU







+94713843784



sadevk@sltc.lk



Sri Lanka Technological Campus,
Padukka



linkedin.com/in/sadev- kalubowila