ISRAELI TECH VS. CORONA
A Guide for Corporations

With the eruption of the COVID-19 pandemic, Start-Up Nation Central focused its efforts on identifying Israeli "CoronaTech" innovation and making it accessible to decision-makers in Israel and around the world.

Mapping and tagging relevant Israeli technologies on the Finder Innovation Discovery Platform ›

Introducing Israeli entrepreneurs and technologies to organizations seeking COVID-19 solutions

Launching the CoronaTech Israel Information Hub, promoting knowledge-sharing and rapid collaboration ›

For additional information, introductions, or large-scale customization, please contact Jeremie Kletzkine, VP Business Development:

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Challenge 1: Quickly identify potentially infected people entering the workplace (large office buildings, factories)

Once employees arrive at the office/factory, they must be checked and monitored for possible signs of disease. Infected employees are then isolated, as are those with whom they were in contact.

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binah.ai

The Binah.ai vital signs monitoring app enables remote, real-time monitoring of vital signs such as heart rate, SpO2, respiration rate, and mental stress through employee smartphones. Oxygen saturation, respiration rate, heart rate and HRV can be easily measured by looking into a smartphone camera.

Deployment stage: Market ready

EDAS HEALTHCARE

EDAS Healthcare enables governments and healthcare systems to screen large groups for respiratory infections, including COVID-19. The company's solution detects the patient's specific infecting pathogen, using only anonymous patient demographics and without any physical tests or equipment. The solution allows for instant and remote detection of infection with over 90% accuracy (~10% false positives) and with ~98% elimination accuracy (~2% false negatives).

Deployment stage: Pilot

Hamagen is a digital tool for fighting the spread of the novel coronavirus. The app cross-references information about the location of confirmed COVID-19 patients with the location of app users. The app predicts whether the user might have been exposed to a confirmed COVID-19 patient with a high degree of accuracy. Upon detection of such an event, the user is notified (including time and location), minimizing the likelihood of his/her infection.

Deployment stage: Market ready

IRON DRONE

Iron Drone's ThermoGate screening device for remote body temperature measurement has been optimized for places in which mass gatherings take place. ThermoGate can screen up to 1,000 persons per hour with high accuracy.

Deployment stage: Market ready

Neteera Technologies' contactless sensing platform for human vital signs serves as a front-line contact-free pre-screening tool for deployment in hospitals, airports, workplaces and public venues. The system rapidly detects such indicators as elevated heart rate, respiration rate and temperature, alerting healthcare professionals to those in need of attention and assistance.

Deployment stage: 🚀 Pilot

The **SmellTracker** online platform is designed to help users self-monitor their sense of smell for the early detection of COVID-19.

Deployment stage: 🔧 Market ready

Vayyar's intelligent sensors detect and check vital signs that can indicate early-stage COVID-19 symptoms. The data, including pulse rate, heart rate variability and respiratory rate, are all measured remotely, without the need for touch.

Deployment stage: 🔧 Market ready

Vocalis Health has deployed a state-of-the-art AI method for correlating specific voice behavior with COVID-19 symptoms, enabling identification, and monitoring of early symptoms using smartphones.

Deployment stage: 🚀 Pilot

Challenge 2: **Increasing the resiliency and business continuity for manufacturing facilities through digitization**

Manufacturers are looking to digitize and implement advanced tools to their operations and supply chain to build more resilient manufacturing capabilities.

3d Signals enables immediate visibility into production floors through the quick, noninvasive, machine-agnostic deployment of a wide range of sensors. The company's AI-based asset performance monitoring platform transforms data into powerful insights, providing multiple business intelligence and analysis tools in the cloud.

Deployment stage: 🔧 Market ready

Fieldbit is an augmented-reality (AR) multi-source knowledge platform for field service, providing remote assistance and work instructions to support industrial assets at remote sites. The AR platform offers field service technicians rich real-time information and guidance through interactive collaboration with experts and digital resources, enabling them to solve critical problems effectively. This capability is useful for enterprises that spend time, money, and resources sending technicians from around the world to service remote locations. By empowering on-site teams to resolve issues via fast, easy, and reliable access to AR remote assistance, Fieldbit reduces the need for technician visits which lead to substantial savings. Fieldbit's multi-source field service knowledge platform provides five sources of information and expertise - subject-matter experts, accumulated organizational knowledge, step-by-step procedures, IIoT real-time data, field service management software, and back-office solutions - that richly benefit field service technicians, enabling them to achieve results more effectively and efficiently.

Deployment stage: 🔧 Market ready

Functioning on the intersection of AI and IIOT, **Augury's** end-to-end solutions provide machines with a mechanical "nervous system" and the awareness to optimize their own health, increasing human productivity and safety. Early warning of developing machine issues helps to determine exactly what is wrong on the component level and which corrective action to take.

Deployment stage: 🔧 Market ready

Feelit Technologies' printed, flexible, fully integrated nanomaterial-based sensing solutions turn any object into a smart object. Nanoink is printed on a flexible sticker and glued to equipment, becoming an "electronic skin" capable of sensing and analyze structural state and real time material change in any material, thus predicting critical problems in advance and preventing downtime, energy loss, and maintenance costs, as well as enabling significant savings by improving yield.

Deployment stage: 🌱 Early stage

Halo Digital builds end-to-end manufacturing facility digital infrastructures that transform operational efficiency, reduce costs, and support operational predictions and effective root-cause investigations. The Halo platform provides a digital representation of an organization's people, processes, and technology, offering the benefits of digitalization and empowering domain experts with powerful intuitive analytic tools.

Deployment stage: 🔧 Market ready

OptimalPlus develops lifecycle analytics solutions for the automotive, semiconductor, and electronics industries, serving tier-1 suppliers and OEMs. Analyzing data from over 100 billion devices annually, OptimalPlus enables enhancements in key manufacturing metrics such as yield and efficiency, improves product quality and reliability, and provides full supply-chain visibility. The OptimalPlus open platform combines machine learning and global data infrastructure to provide real-time product analytics and to extract insights from across the entire supply chain. provide real-time product analytics and extract insights from data across the entire supply chain.

Deployment stage: 🏭 Market ready

Matics is a secure, plug-and-play, cloud-based digital manufacturing intelligence solution designed for small and medium enterprises. Using advanced computing technologies, Matics provides a real-time window into the manufacturing environment for instant control and visibility over operations. The platform deploys Industrial IoT devices; secure, cloud-based connectivity and smart, connected apps to gain live OEE control; and real-time manufacturing analytics.

Deployment stage: 🌱 Early stage

The **Visual Factories** plug and play platform provides a real-time view of discrete factory productivity by visualizing individual machine performance, informing operational decisions, and optimizing manufacturing results. The platform provides all levels of an organization with a shared view of each machine's performance at all times so that changes can be made quickly and efficiently. Increased clarity and control enables manufacturers to set and achieve realistic goals based on optimal digital performance management.

Deployment stage: 🏭 Market ready

An IIoT software company facilitating zero unplanned downtime, **Precognize's** cloud-based big data software solution predicts shutdowns, leakages, and inefficient operation of complex industrial systems via deep analysis of existing data. The company is focused on the petrochemical, chemical, electricity generation, metallurgy, and oil and gas industries.

Deployment stage: 🏭 Market ready

The **proteanTecs** cloud-based platform combines data created in embedded chips with machine learning in order to predict faults before they become failures. proteanTecs' product-lifecycle tracking creates end-to-end correlation along the electronics supply chain by providing a common language, streamlining data, and ensuring visibility between all stages. By adding a level of traceability into the production of the chip, future problems can be traced, and the root cause understood.

Deployment stage: 🏭 Market ready

Presenso specializes in artificial intelligence for predictive asset management. The company's solution uses advanced artificial intelligence to provide real-time asset failure predictions based on monitoring sensors' signal data in the cloud. With its proprietary adaptive algorithms, Presenso can analyze sensor behavior, automatically learn how machines behave, and use this learning to predict machine failures before they occur.

Deployment stage: 🏭 Market ready

Seebo enables manufacturers to predict and prevent unexpected process inefficiencies that damage production yield and quality. The company's solutions employ explainable AI technology, adapted to the complex dependencies of multiple time-series data, to help production teams pinpoint process inefficiencies and predict when they will happen next.

Deployment stage: 🏭 Market ready