



*How Nonprofits Can Take  
Advantage of the  
Internet of Things*

# Hi! I'll be your guide today

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*I like people and happen to work with software.*

# 20 Seconds about Skvare

*(pronounced SQUARE)*

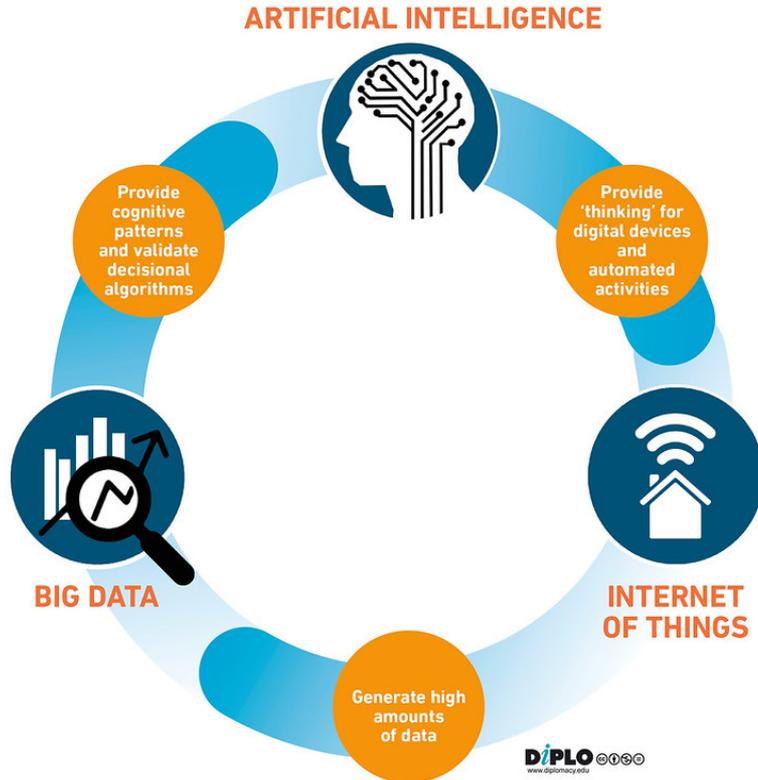
*We help others help others*

- *Technology Strategy*
- *Web Hosting*
- *Ongoing Support*
- *Mail Services*

<https://skvare.com>



# What is the Internet of Things



*A system of interrelated, internet-connected objects that are able to collect and transfer data over a wireless network without human intervention.*

# Data Collection & Security



- 2019 Research - Consumers International and the Internet Society
- Open Connectivity Foundation - <https://openconnectivity.org/>
- The LoRa Alliance - <https://lora-alliance.org/>
- Legislation - IoT Readiness Act
- UK Code of Practice
- Finland - Cybersecurity Labels for IoT devices

# What Does the Data Say?

## 2020 Smart Audio Report

- 20 million smart speakers were installed in U.S. households (as of Jan 2019)
- Market: Amazon (70%), Google (25%), Apple (5%).
- 52% of users use voice tech several times a day or nearly every day, compared to 46% before the outbreak



# Alexa-enabled Donations

378 charities are registered to accept voice donations via Alexa

- [FAQ](#) to get started (register for Amazon Pay)



# Alexa Skills

<https://www.audubon.org/alexa>

Songs & calls of 600+ North American bird species from library of 2,000+ recordings

- *Alexa, ask Audubon what a Northern Cardinal sounds like."*
- *Alexa, ask Audubon to play call 3 of the American Robin."*



# Save a Life

*Providing basic CPR instruction and warning signs of a heart attack or stroke*

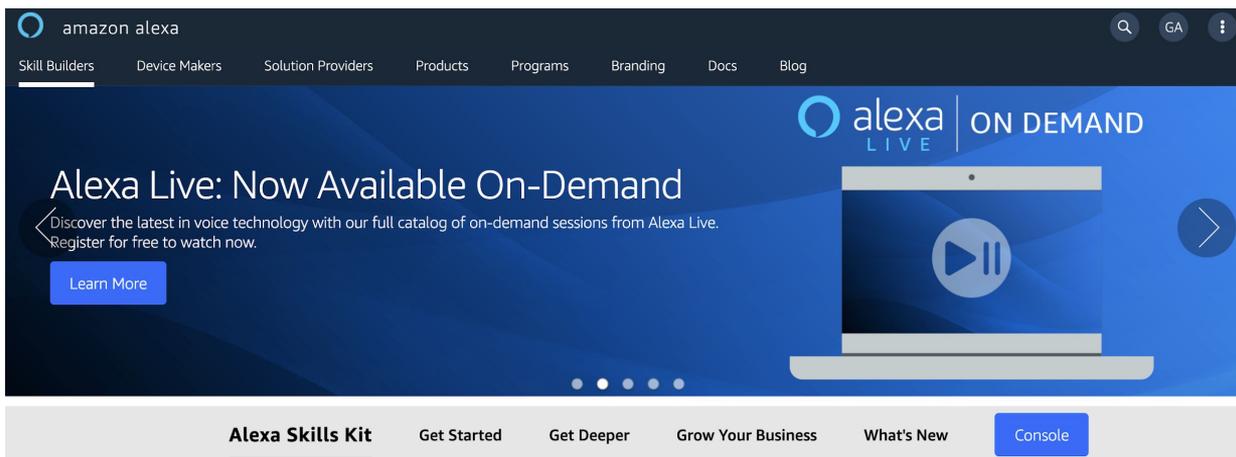
- *“Alexa, ask American Heart ... what are the warning signs of a stroke?”*
- *“Alexa, ask American Heart...what are the warning signs of a heart attack?”*



American  
Heart  
Association®

# Build Your Own Skill

<https://developer.amazon.com/en-US/alexa/alexa-skills-kit>



The screenshot shows the Amazon Alexa developer website. At the top, there is a navigation bar with the Amazon Alexa logo and the text "amazon alexa". Below this, there are several menu items: "Skill Builders", "Device Makers", "Solution Providers", "Products", "Programs", "Branding", "Docs", and "Blog". The main content area features a large blue banner with the text "Alexa Live: Now Available On-Demand" and a sub-headline "Discover the latest in voice technology with our full catalog of on-demand sessions from Alexa Live. Register for free to watch now." A "Learn More" button is visible. To the right of the text is a play button icon on a screen. Below the banner, there is a navigation bar with the following items: "Alexa Skills Kit" (which is underlined), "Get Started", "Get Deeper", "Grow Your Business", "What's New", and "Console".

[Alexa](#) > [Alexa Skills Kit](#)

## What Are Alexa Skills?

Skills are like apps for Alexa, and provide a new channel for your content and services. Skills let customers use their voices to perform everyday tasks like checking the news, listening to music,



FEEDBACK

# Sensor Data



*Connect with donors by delivering impact.*

- *Working in developing countries to improve access to wells*
- *Sensors installed on wells show when and how much water is extracted on a specific day or over time*

# Sensor Data

## Dexcom G6 Continuous Glucose Monitoring

- *Intervention*
- *Prevention*
- *Control*
- *... Research is changing*



# SMS



*Text to....*

- *Donate*
- *Get Information*
- *Join In*
- *Advocate*

<https://www.wholewhale.com/tips/free-cheap-mas-s-texting-nonprofits/>

