



Picture Credit | SAP SE, Walldorf, Germany. Used with permission.

iBOL: Documenting Planet Earth One DNA Barcode at a Time with the SAP HANA® Platform

For over 10 years, the International Barcode of Life (iBOL) project has been documenting all multicellular life using DNA-based barcode identification. With a third of all species likely extinct by 2100, iBOL is in a race against time to barcode the world. Combining design-thinking with SAP® software technology, iBOL and SAP created the LifeScanner mobile application to crowdsource specimens for barcoding and identification.

LifeScanner set to uncover millions of DNA barcodes

iBOL and SAP facilitate contributions from around the world



Objectives

- Document the planet's species by crowdsourcing specimen collection
- Engage Millennials and youth in discovering new species and understanding the global ecosystem
- Increase bio-literacy and raise environmental awareness globally

Why SAP

- Design-thinking methodology to co-innovate a best-in-class solution
- SAP HANA® platform for building a mobile-first, Big Data application
- SAP® University Alliances program and its reach into 1,700 educational institutions globally

Benefits

- Simple and user-friendly LifeScanner application that can be deployed anywhere in the world
- Robust architecture that can operate with or without wireless connectivity
- Ability to scale specimen collection and analysis by crowdsourcing through Millennials

Future plans

- Make LifeScanner available across the greatest reaches of our planet
- Build a global network of testing labs to simplify the processing of DNA barcodes
- Collaborate with research partners to build handheld DNA sequencers for real-time testing and identification

Organization

International Barcode of Life (iBOL)

Headquarters

Bio-Diversity Institute of Ontario, University of Guelph, Guelph, Ontario, Canada

Industry

Life sciences

Mission

The largest biodiversity genomics initiative ever undertaken, with a mission to document every species on earth using DNA-based identification techniques

Participating Countries

>25

Web Sites

www.lifescanner.net
www.ibol.org

“With the power of SAP software technology and design thinking experts, we have created a solution that puts biodiversity-genomics data into the hands of the average person, enabling them to understand our planet and help contribute to its protection.”

Sujeewan Ratnasingham, Chair of Informatics, International Barcode of Life

© 2015 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.