

# What's Best for My Collection?

New Approaches to Environmental Monitoring

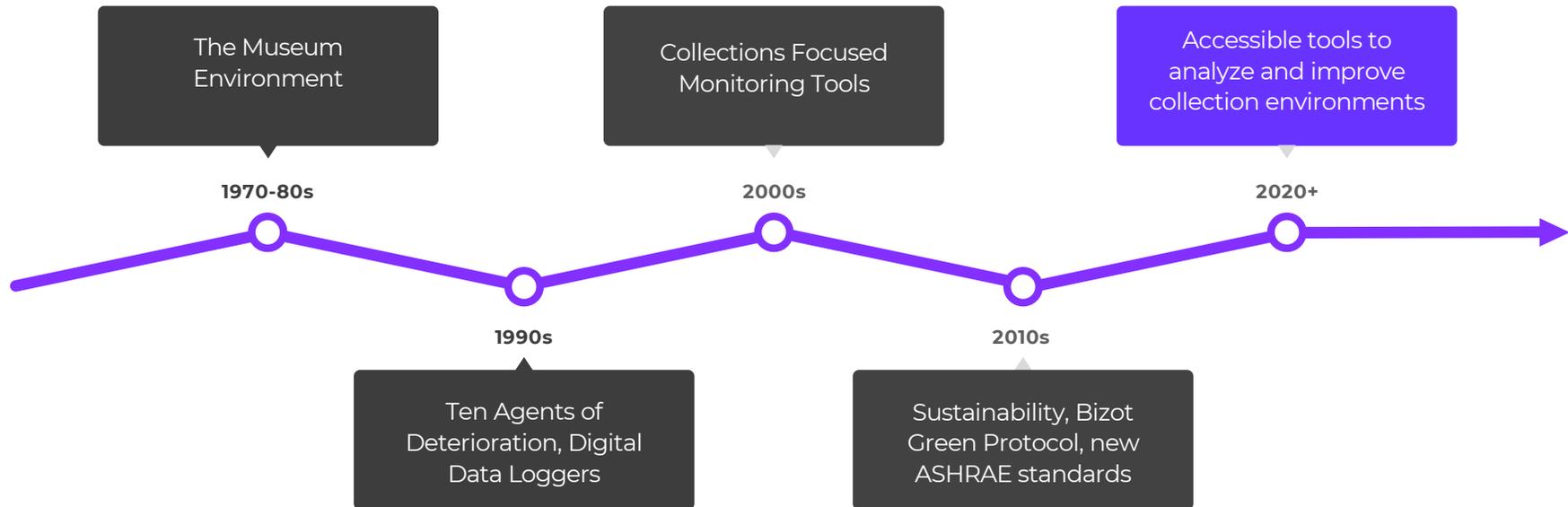
*Conserv* +



Connecting to  
Collections Care

<http://bit.ly/whatsbestformycollection>

# Brief History of Environmental Monitoring



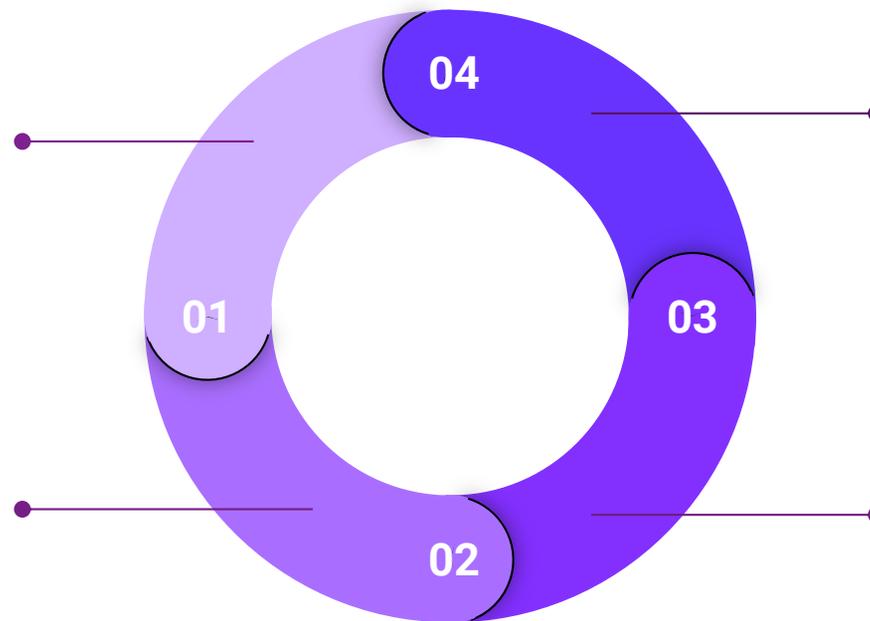
# So what is environmental monitoring?

## Data Collection

Measuring the agents of deterioration that put a collection at risk - temp, RH, light, pollutants, etc.

## Analysis

Understanding where things are going well and where they're not



## Outcomes

Taking action to improve the environment, tracking if things are improving or not

## Sharing

Building consensus around what's going on, making decisions with stakeholders



# What's the outcome we're after?



“In its simplest and most absolute sense, the goal of preservation is to **convey a collection from one point in time to a future time with no unnecessary damage or loss.**”

Rob Waller  
CEO, Protect Heritage

- ✓ Management of the collection environment is now considered a requirement for good collections care.

# Perceived constraints to good outcomes

“**Collecting** data is manual and time consuming. Wireless is expensive to install and difficult to maintain.”

“**Analyzing environmental data** is difficult and best left to conservators and/or building engineers.”

“**Sharing environmental data** is complicated and it’s hard to communicate the importance of our collection environment”

“There’s not much I can do to **improve outcomes** for my collection environment.”

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# A Vision Built on Data



Very Large Array, Datil, NM

"I have a deep interest in finding practical, accessible tools for workers in smaller institutions that will enable them to use and understand compiled data in a way that will lead to continual improvement in collections care."

**M. Susan Barger**

# How Conserv got started



“Data loggers are a hassle to deal with — manually collecting the data, creating meaningful analysis. Most of the options aren’t designed for collections care work, so we make do with what we have.”

**Margaret Burnham**  
Objects Conservator

# Conserv Guiding Principles for Environmental Monitoring

- Collecting data should be **automated** and **effortless**. Wireless should be **inexpensive to install** and **simple to maintain**.
- Analyzing environmental data should be **straightforward** and **anyone** with collections experience can learn how to do it.
- Sharing environmental data should be **simple** and should **quickly** highlight the importance of your collection environment.
- There's **always something** that can be done to improve outcomes for my collection environment.

# Where is your collection today?

	Data Collection	Analysis	Communication	Outcomes
<b>Level 1</b>	<b>Point in Time</b> ie Thermostat	<b>In the Dark.</b> Data is recorded and put in a drawer	<b>Siloed.</b> Data is not fully understood or shared	<b>Drifting.</b> Insufficient data to get an entire picture of what is going on with the collection
<b>Level 2</b>	<b>Historical</b> ie Data Logger, Hygrothermograph	<b>Clarity.</b> Clear target and a sense of how you're doing	<b>Collaborative.</b> You can use your data to influence your team	<b>Direction.</b> Clear sense of progress month over month, year over year.
<b>Level 3</b>	<b>Real-Time</b> ie Wireless Sensor	<b>Visionary.</b> Can anticipate changes and proactively address them	<b>Contributing.</b> Your private data is contributing to public research	<b>Certain.</b> Well-informed confidence that the collection survives into the future

Take the Survey: <http://bit.ly/conservmonitoringsurvey>

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# Built for Collections



"Feedback from real collections helps us all. We can all grow and improve together."

**Sarah Kortemeier**

University of Arizona, Poetry Center



Conserv Cloud is a free tool developed by and for collections professionals to analyze and share environmental data

# Software used to understand data



Excel



Tableau



Power BI



R



HOBOWare



Hanwell



T&D



Conserv Cloud



eClimateNotebook



Getty Excel Tools

**LESS**  
Monitoring/Collections  
Focused

**MORE**  
Monitoring/Collections  
Focused

# Introducing Conserv Cloud

Our vision is a world where the people who care for collections can make progress every day towards better outcomes, no matter their budget, geography, or capacity.

## Free Tool

Unlimited users,  
unlimited data,  
unlimited loggers

## BYOD

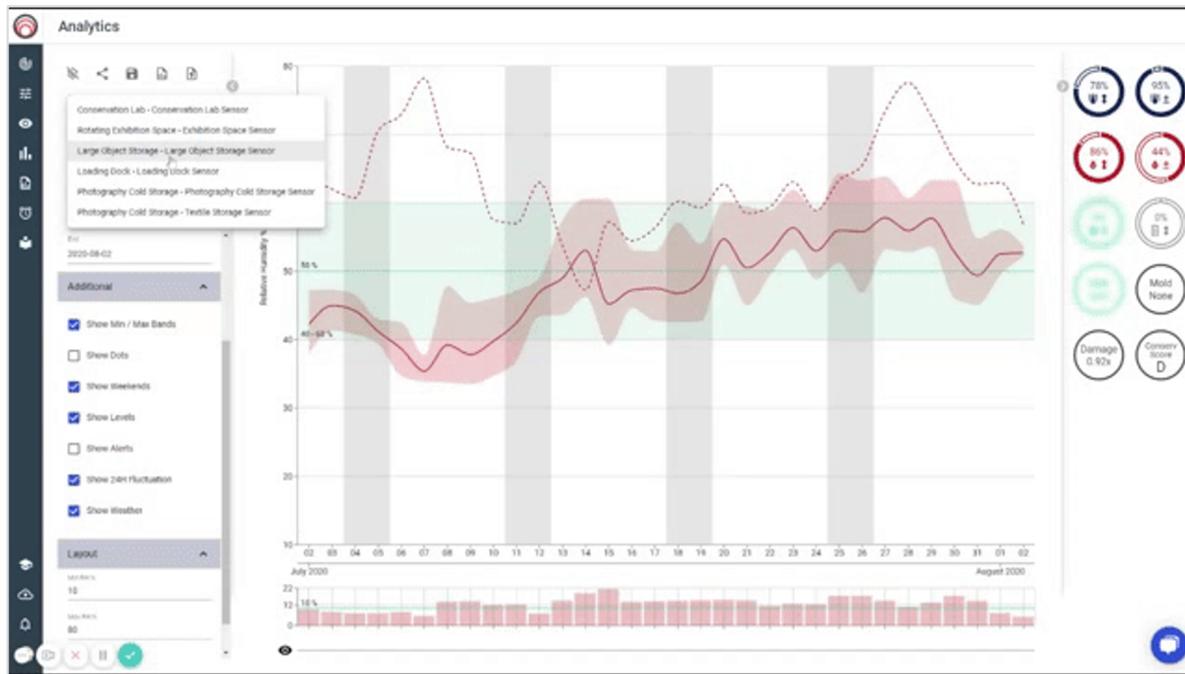
That's bring your own data, works with data from any logger

## Analytics & Sharing

Set levels, evaluate mold risks, review the weather, share reports



# Quick Look at the Software



- ✓ Temp, RH, Light Readings
- ✓ Integrated Weather Readings
- ✓ Set Environmental Levels
- ✓ Key Performance Indicators
- ✓ Collection Observations
- ✓ Facility Reports
- ✓ Integrated Pest Management

# How to Get Started

Collection Survey

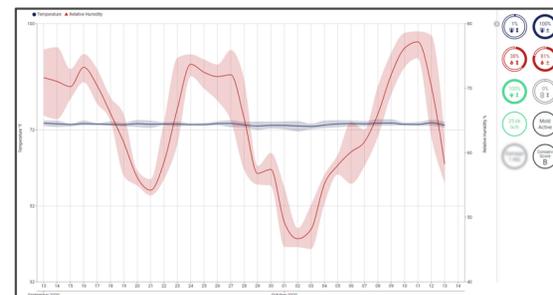
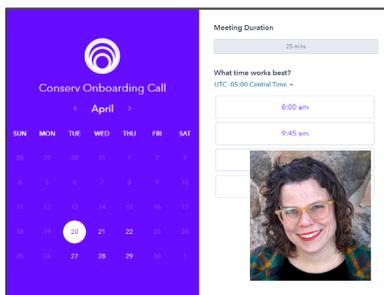
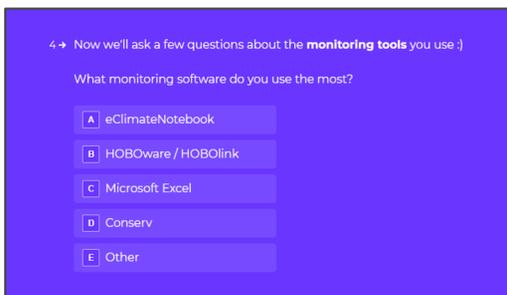
Your Onboarding Call

Better Outcomes

Visit our website, **click the Get Started button**, and complete the collection survey.

We'll send you **a link to schedule a call** with our team to get things tailored to you.

**Ready to go.** Invite your team, give us feedback, and work with free tools designed for you.



# Your onboarding call



**Melissa King**

Preventive Conservator

1. Setup your location and spaces
2. Upload data from your loggers
3. Set environmental targets for your collection
4. Use KPIs (key performance indicators) to identify environmental problems
5. Record an observation in the application
6. Review weather to understand your building
7. Invite colleagues to your account

# Who's Using Conserv Software



# **Supplemental Material**





**Austin Senseman**  
CEO, Founder



**Nathan McMinn**  
CTO, Founder



**Melissa King**  
Conservation Liaison



**Bhuwan Bashel**  
Senior Engineer

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## CORE TEAM



**Julie Heath**



**Ana Martins**



**Chris Winslett**



**Dirk Brown**

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## ADVISORY BOARD

# Conserv mantra for Data Collection

Collecting data is automated and effortless. Wireless should be inexpensive to install and simple to maintain.

<b>Level 1</b>	<b>Point in Time</b> ie Thermostat
<b>Level 2</b>	<b>Historical</b> ie Data Logger, Hygrothermograph
<b>Level 3</b>	<b>Real-Time</b> ie Wireless Sensor

- Focus on creating a historical record of environmental data, at a minimum
  - Calculate how much time you spend collecting data from your loggers.
  - Identify problems that weren't discovered in real-time that led to larger problems
  - Review data requirements for grants to improve your building or HVAC system
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# Conserv mantra for Data Analysis

Analyzing environmental data is straightforward and anyone with collections experience can learn how to do it

Level 1	<b>In the Dark.</b> Data is recorded and put in a drawer
Level 2	<b>Clarity.</b> Clear target and a sense of how you're doing
Level 3	<b>Visionary.</b> Can anticipate changes and proactively address them

- Set environmental targets for your unique collection objects
  - Create a report that you look at monthly
  - Focus on the environmental problem areas in your collection and ignore the rest
  - Learn how your building environment interacts with your local weather
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# Conserv mantra for Communication/Sharing

Sharing environmental data is [just a few button clicks](#) and [reports highlight the importance of our collection environment](#)

<b>Level 1</b>	<b>Siloed.</b> Data is not fully understood or shared
<b>Level 2</b>	<b>Collaborative.</b> You can use your data to influence your team
<b>Level 3</b>	<b>Contributing.</b> Your private data is contributing to public research

- Ask your colleagues about their goals re: the collection, and just listen
  - Connect your reporting with your colleagues' goals, to speak their language
  - Consider sharing your environmental data with researchers to help advance the field
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# Conserv mantra for Collection Outcomes

There's [always something I can do](#) to improve outcomes for my collection environment.

<b>Level 1</b>	<b>Drifting.</b> Insufficient data to get an entire picture of what is going on with the collection
<b>Level 2</b>	<b>Direction.</b> Clear sense of progress month over month, year over year.
<b>Level 3</b>	<b>Certain.</b> Well-informed confidence that the collection survives into the future

- Take better notes, the Conserv observations tool is a great start
  - Be explicit about what success looks like for your collection, year over year
  - Adopt the mindset of progress over perfection
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