

Do commercial data systems seem **overdone**,
complicated, **rigid** or **expensive** for your needs?



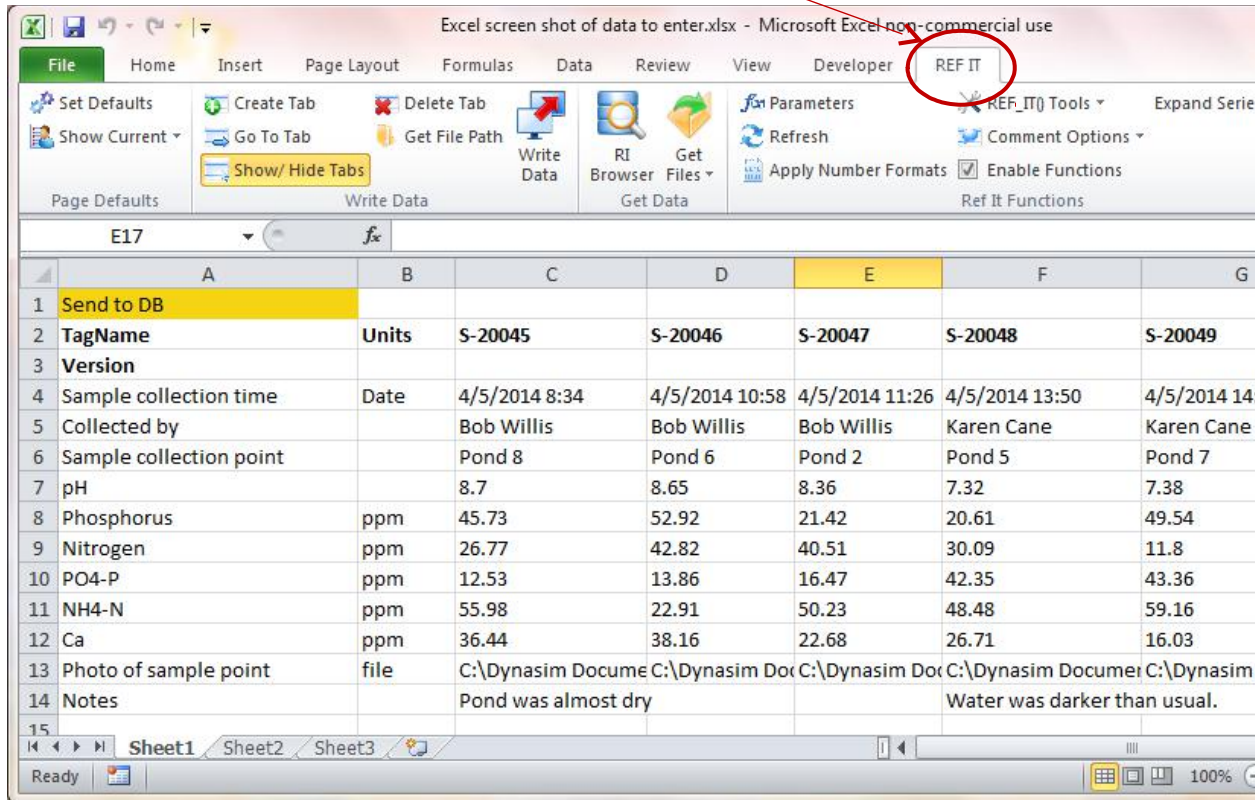
Ref It TM Technology

An Intelligently Simple Way to Manage Data

- ❖ Highly flexible and simple-to-use
- ❖ One unique Ref It TM database structure for all data
- ❖ Read/write tools work with all data
- ❖ **No database programming experience required!**



A new “Ref It” ribbon shows up in Microsoft Excel™



Microsoft SQL Server™ Database

Organize data, then click button to send

- *Send data points, series data, photos, documents, attachments, notes...*
- *Send updates, new versions, corrections*



Create Custom User-Entry Forms in Microsoft Excel™

File Home Insert Draw Page Layout Formulas Data Review View Developer Ref It™ Soda PDF 8 Creator Tell me what you want to do

Set Defaults Write Selected Get Files Apply # Formats Expand Results Project Codes
Set Logins Write Tab Data RI Auto TagName Comments Parameters RI Manual Calc
Show Current Write-Tab Menu RI Browser Import Filepath REF_IT Subs Enable Functions Manager Admin

Page Defaults Send Data Get Data Ref It Functions Admin

F9

| A | B | C | D | E | F | G |
|----|------------------------------------|--|---|---|----------------------------|-----------------------------|
| 1 | Sample Entry | | | | Clear Form | Submit Data |
| 2 | | | | | | |
| 3 | Sample ID: | S-0000432 | | Add Links to this Sample Entry | | |
| 4 | Technician: | Luke Bryson | | | | |
| 5 | Submitted by: | Lisa Dodd | | Analytical Output Files | | |
| 6 | Associated Project: | Nutrient Management of Soils | | Edit List | | |
| 7 | Date Submitted: | 10/15/2016 | | | | |
| 8 | Rush: | No | | | | |
| 9 | | | | <input type="text"/> | | |
| 10 | | | | <i>These links are updated in the database.</i> | | |
| 11 | Sample Collection Date: | 57 | | Nitrogen Assay | | |
| 12 | Collected By: | 88 | | Phosphorus Assay | | |
| 13 | Collection Point Longitude: | 100.78 | | | | |
| 14 | Collection Point Latitude: | 39.03 | | | | |
| 15 | Field Type: | Cattle feedlot run off | | | | |
| 16 | | | | | | |
| 17 | Phosphorus (ppm): | 57 | | | | |
| 18 | NH4-N (ppm): | 88 | | | | |
| 19 | NO3-N (ppm): | 72 | | | | |
| 20 | Sulfur (ppm): | 116 | | | | |
| 21 | Potassium (ppm): | 69 | | | | |
| 22 | Phosphorus (ppm): | 8.95 | | | | |
| 23 | | | | | | |
| 24 | Notes: | Sample contained more particulates than usual. | | | | |
| 25 | | | | | | |

SampleEntry

Microsoft SQL Server™ Database



Ref It Universal Search and Retrieval Tools

Search Ref It Databases

Copy Tags Copy Variables Copy WDTs or Versions Save/Retrieve Search

Server: GINA-MOBILE\TECHCENTERSERVER

Proj. Code: 17 = RIDB_PhosSystem, RIProj_MultiData

Entered by: All

Version: ignore

WriteDate Time (WDT): Search all Search latest

Narrow WDT sets by date/time range:

from

to

Narrow WDT sets to those whose variables meet the following conditions:

Variables:

Display search results (select WDTs, TagNames, then Variables):

6/19/2014 2:45:26 PM

SR-1205130813
SR-1205130818
SR-1205130848
SR-1205130918
SR-1205130948
SR-1205131018
SR-1205131048
SR-1205131118

Up Down

pH ()
Test technician ()
Test date (Date)
Datasheet (File)
Ca (ppm)
Mg (ppm)
PO4-P (ppm)
Total N (ppm)
Total P (ppm)

Select All Deselect Select All Deselect Select All Deselect

Preview Data

Export to Excel Values Only REF_IT() Functions

| Variable Name | Units | > | < | >= | <= | = | Contains | Does Not Contain |
|-----------------|-------|---|----|----|----|---|----------|------------------|
| Ca | ppm | | | | 80 | | | |
| pH | | 7 | 10 | | | | | |
| Test technician | | | | | | | lisa | |

Delete Selected Row(s) Clear Form Selections Exit

Microsoft
SQL Server™
Database

Microsoft Excel
™ Worksheet

Ref Import data into Excel with custom functions

| | D | E | F |
|----|---|---|--------------------------|
| 7 | | | |
| 8 | | | |
| 9 | | | =REF_IT("Sample 3","pH") |
| 10 | | | |
| 11 | | | |

| | D | E | F |
|----|---|---|------|
| 7 | | | |
| 8 | | | |
| 9 | | | 6.15 |
| 10 | | | |
| 11 | | | |

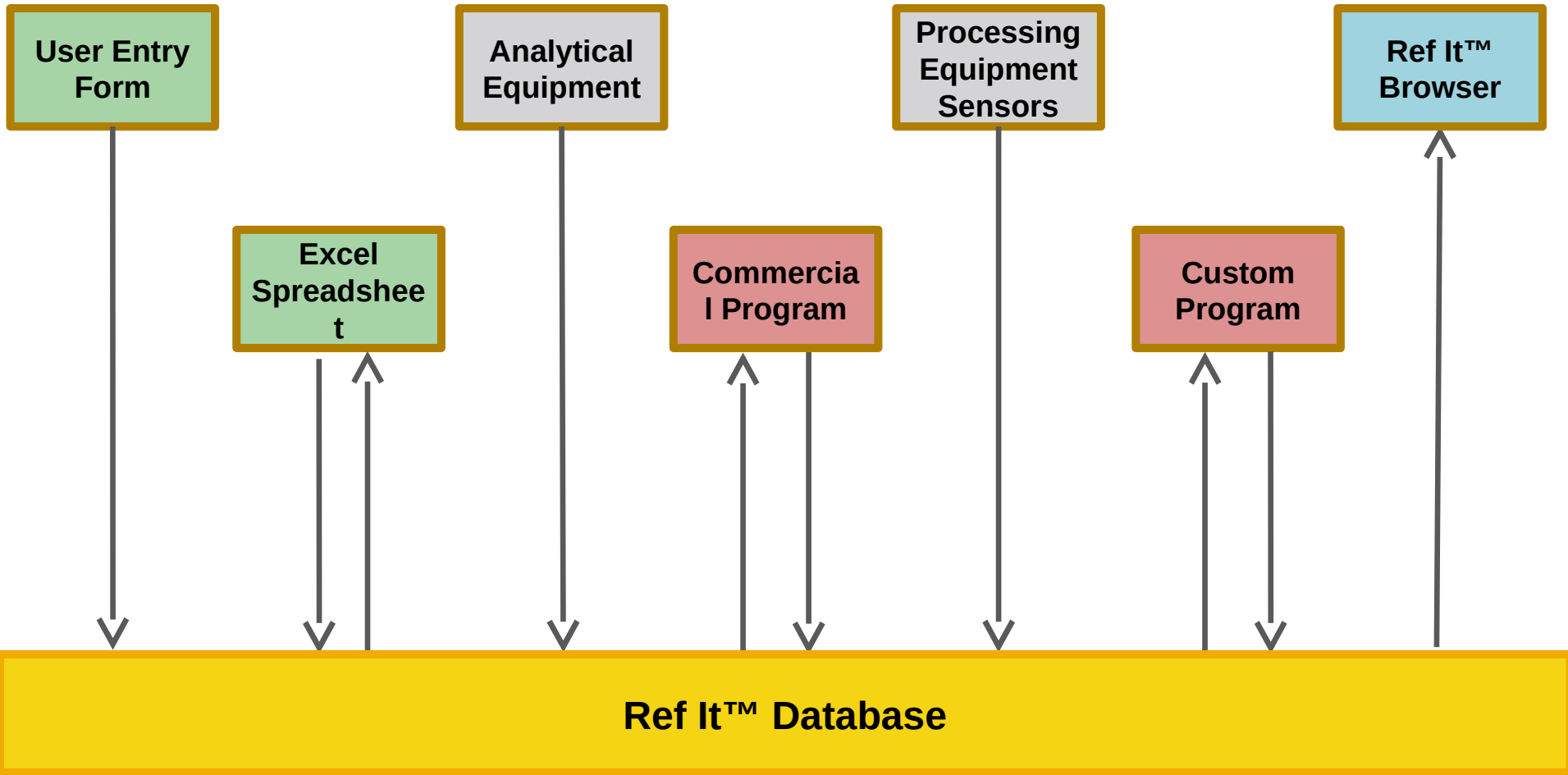
Use functions to import data for

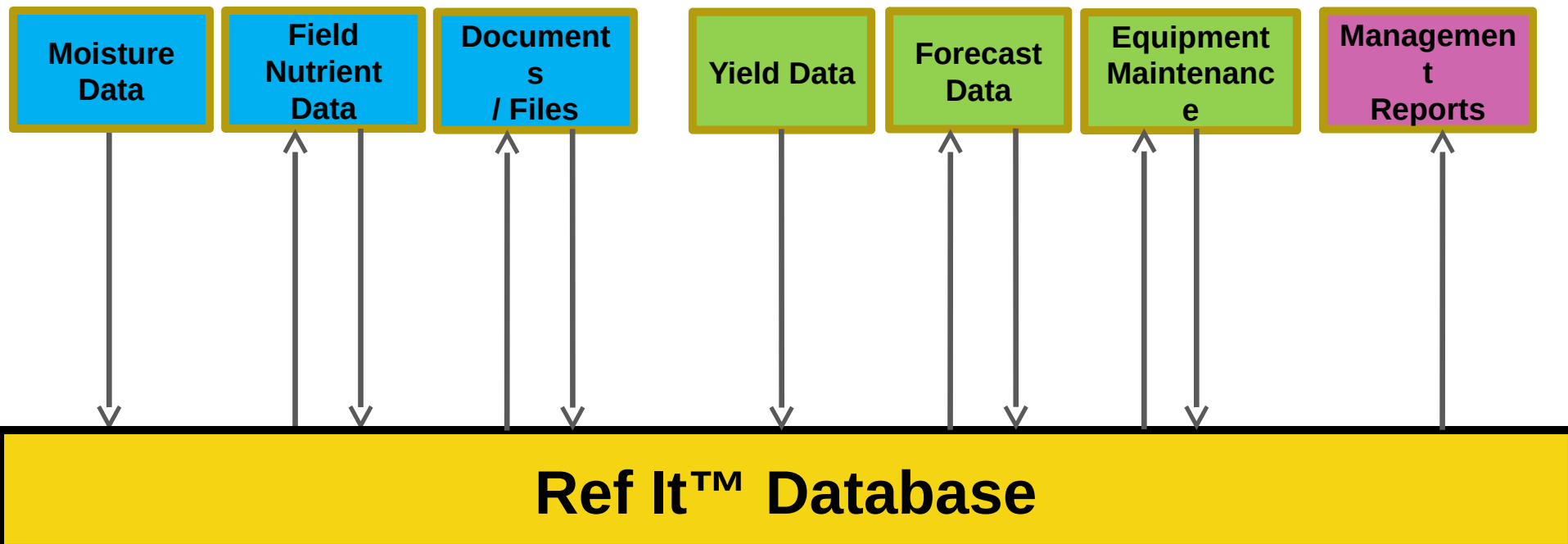
- *To recall values*
- *To use values in calculations*
- *To generate quick reports*

- *=RIAvg(), RIMax(), RIMin(), RIQuery()*
- *Make custom functions with embedded calculations*



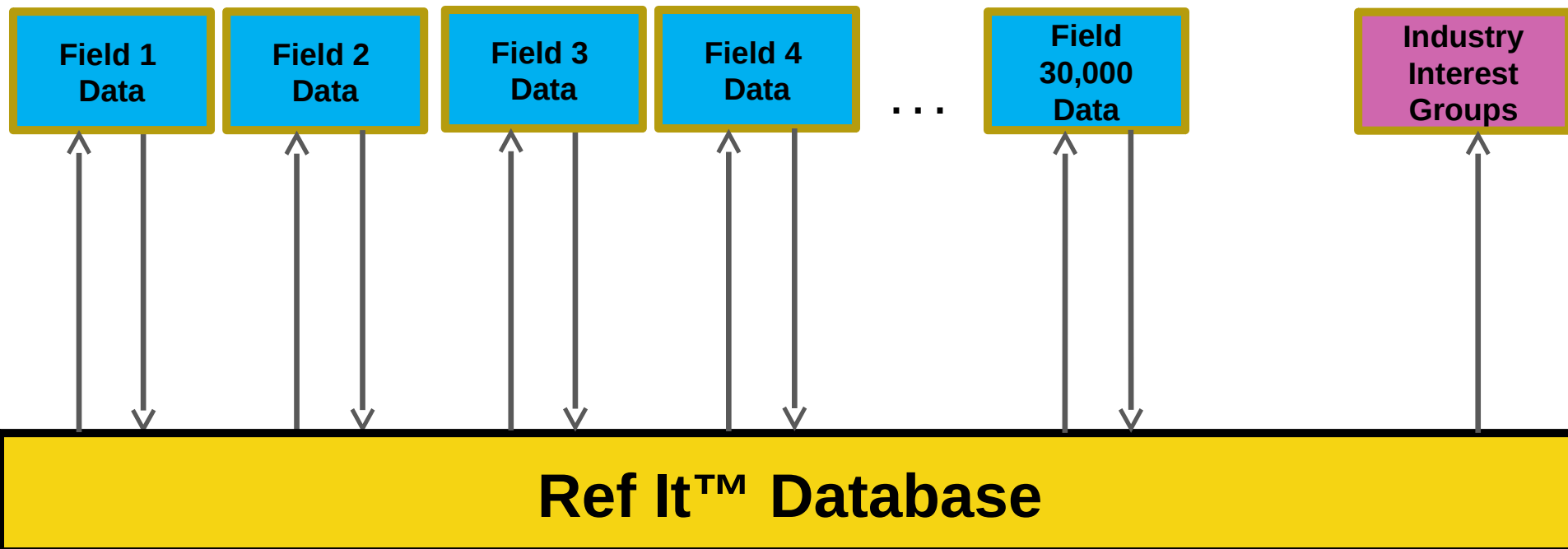
Many Ways to Transfer Data To/From a Ref It Database





Universal Database Structure

- *Databases for all types of data are identically structured*
- *Standard tools work for all data*
- *Custom tools can be widely useful*



Universal Database

- *Databases for all types of data are identically structured*
- *Allows tracking common variables, plus unique variables for unique situations*
- *Makes great tool for team sharing*



Ref It TMTechnology

Winner of the 2016 Think and Do Challenge Award

- Sponsored by NBAF and DHS
- Tool to facilitate an ecosystem of collaborative, innovative partnerships

<https://www.dhs.gov/science-and-technology/blog/2016/02/08/announcing-prize-competition-winners>



Applications

- Sample data
- Research study data
- Log data

- Private data
- Shared group/ industry data

- Production/ Lab Equipment output data
- Document storage
- Specs, maintenance, lab procedures, training

- Engineering design calculations
- Modelling input and output storage

- Routine inspection data
- Survey data



Ref It TM Technology

No database programming skills required!

**Visit our booth to learn
more!**

