



# ARM Software Suite

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# Why use ARM Software?

ARM is the software solution to plan, create, manage, analyze and report agricultural experiments

The screenshot displays the ARM software interface with several key components:

- Power and Efficiency Table:**

CV	Reps	Power	αSL	% Mean Diff	Error DF	'Plot' EUs
3.4	4				3	8
4.25	5				4	10
4.96	6				5	12
5.6	7				6	14
6	8	80	5%	10	7	16
6.64	9				8	18
8	13				12	26
- Trial Map:** A grid of plots (e.g., 401-405, 301-305, 201-205, 101-105) color-coded by treatment.
- Assessment Map - Column 3 - SEPTTR:** A grid of plots (e.g., 401-405, 301-305, 201-205, 101-105) color-coded by rating.
- Rating Type Table:**

Rating Type	Rating Unit	PESSEV %UNCK TAB[7]
Trt Treatment No. Name	Rate Rate Unit	8
1 Untreated Check		0.00 c
2 Tub	0.5 l/ha	88.74 ab
3 Tub	1 l/ha	95.62 a
4 Tilt 250	0.5 l/ha	85.11 ab
5 Mico 60 Fungol	1.5 l/ha 1.25 l/ha	74.09 b
- Summary Statistics Table:**

LSD P=05	12.749
Standard Deviation	8.275
CV	12.04
Grand Mean	68.711
Bartlett's X2	6.963
P(Bartlett's X2)	0.073
Skewness	-1.3261*
Kurtosis	0.1148
Replicate F	2.117
Replicate Prob(F)	0.1514
Treatment F	89.729
Treatment Prob(F)	0.0001
- Treatment Table:**

Trt Line	Trt No	Type	Treatment Name	Fom Conc	Fom Unit	Fom Type	Rate
1	1	CHK	Untreated Check				
2	2	FUNG	Tub	250	G/L	EC	0.5
3	3	FUNG	Tub	250	G/L	EC	1
4	4	FUNG	Tilt 250	250	G/L	EC	0.5
5	5	FUNG	Mico 60	600	G/L	EC	1.5 L/ha 900 g A/ha
6	5	FUNG	Fungol	200	G/L	SC	1.25 L/ha 250 g A/ha

Means followed by same letter or symbol do not differ significantly  
Mean comparisons performed only when AOV is significant



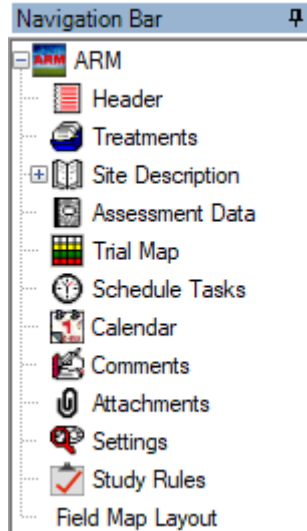
# Why use ARM Software?

ARM provides:

- **Structure** for consistent information
- **Master Lists** to standardize vocabulary
- **Tools** for all phases of an experiment

Resulting benefits include:

- Improves **efficiency**
- Increases **accuracy**
- Promotes **quality**



Pest Code	Pest Scientific Name	Pest Name	Language	Online Reference
1ABRPG	Abortiporus	Abortiporus	IE	<a href="https://gd.eppo.int/taxon/1ABRPG">https://gd.eppo.int/taxon/1ABRPG</a>
1ABSIG	Absidia	Absidia	IE	<a href="https://gd.eppo.int/taxon/1ABSIG">https://gd.eppo.int/taxon/1ABSIG</a>
1ACAWF	Acaulosporaceae	Acaulosporaceae	IE	<a href="https://gd.eppo.int/taxon/1ACAWF">https://gd.eppo.int/taxon/1ACAWF</a>
1ACAWG	Acaulospora	Acaulospora	IE	<a href="https://gd.eppo.int/taxon/1ACAWG">https://gd.eppo.int/taxon/1ACAWG</a>
1ACCMG	Acrocalymma	Acrocalymma	IE	<a href="https://gd.eppo.int/taxon/1ACCMG">https://gd.eppo.int/taxon/1ACCMG</a>
1ACETF	Acetobacteraceae	Acetobacteraceae	IE	<a href="https://gd.eppo.int/taxon/1ACETF">https://gd.eppo.int/taxon/1ACETF</a>
1ACETG	Acetobacter	Acetobacter	IE	<a href="https://gd.eppo.int/taxon/1ACETG">https://gd.eppo.int/taxon/1ACETG</a>
1ACHLG	Achlya	Achlya	IE	<a href="https://gd.eppo.int/taxon/1ACHLG">https://gd.eppo.int/taxon/1ACHLG</a>
1ACHNF	Achnanthaceae	Achnanthaceae	IE	<a href="https://gd.eppo.int/taxon/1ACHNF">https://gd.eppo.int/taxon/1ACHNF</a>

Yield Conversion

Yield units  
Current: Kilograms  
Desired: Kg/Ha

Moisture adjustment  
 Adjust to dry moisture percent = 15.0  
Average moisture percent at harvest  
 Use whole trial average percent = 12  
 Use percent in data column number 11

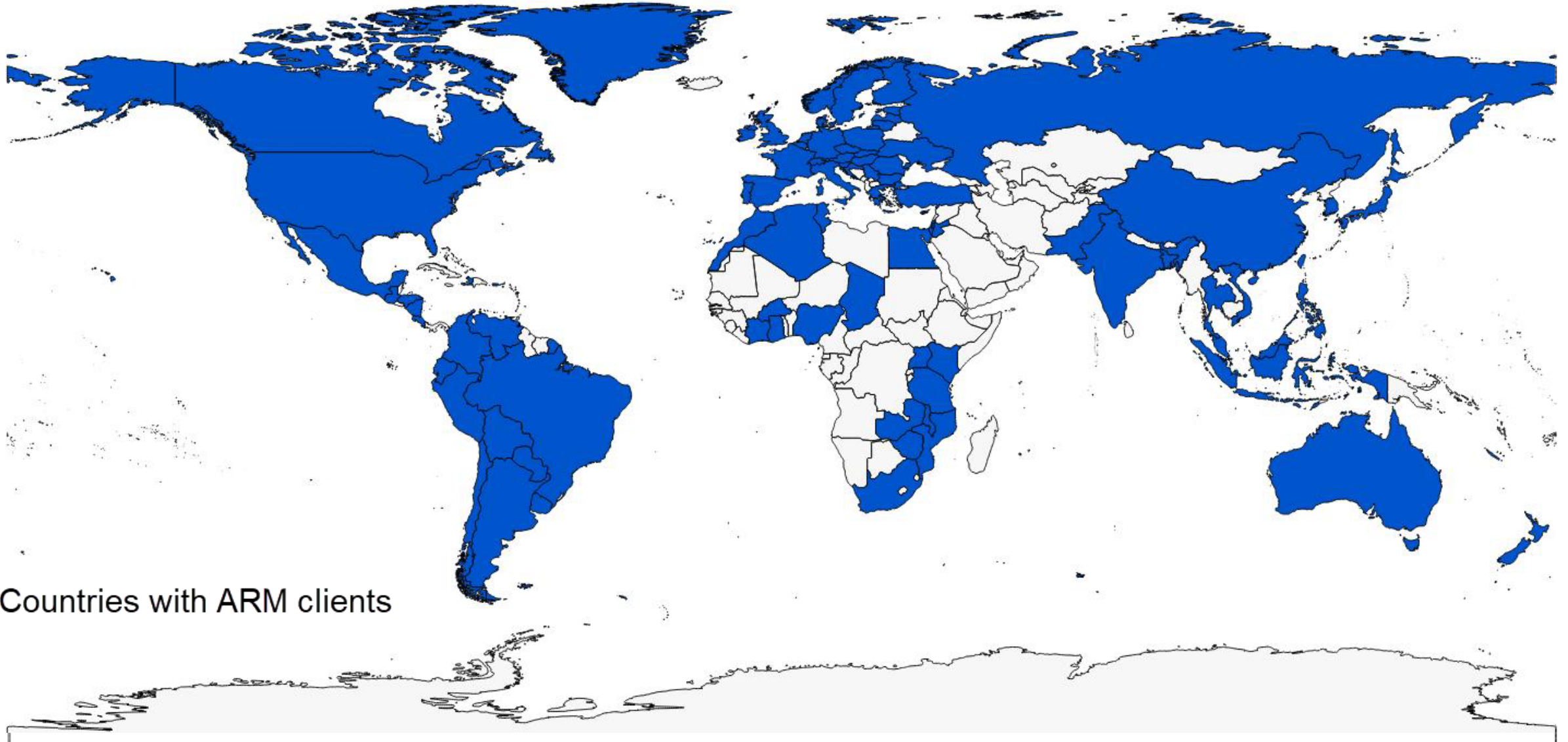
Harvested plot size (m2)  
Width: 2.5  
 Use width in data column number 1  
Length: 10  
 Use length in data column number 1  
Unit: meters

Yield conversion factor  
414.1177  
(adjusted for moisture)

Convert data column number: 13  
Store in data column number: 14  
Number of decimals accuracy: 1

OK Cancel Help

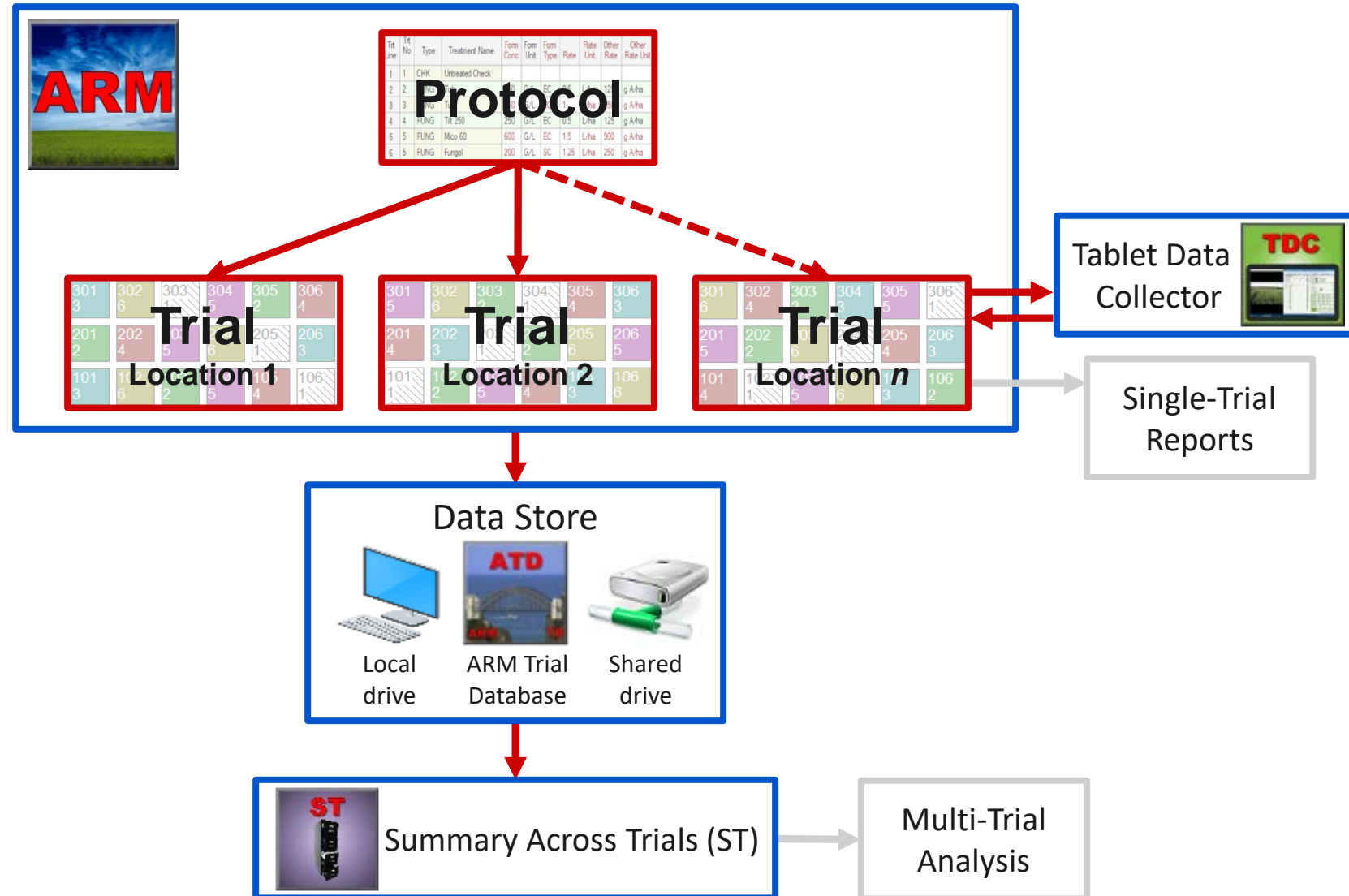
# Country affiliation of ARM clients



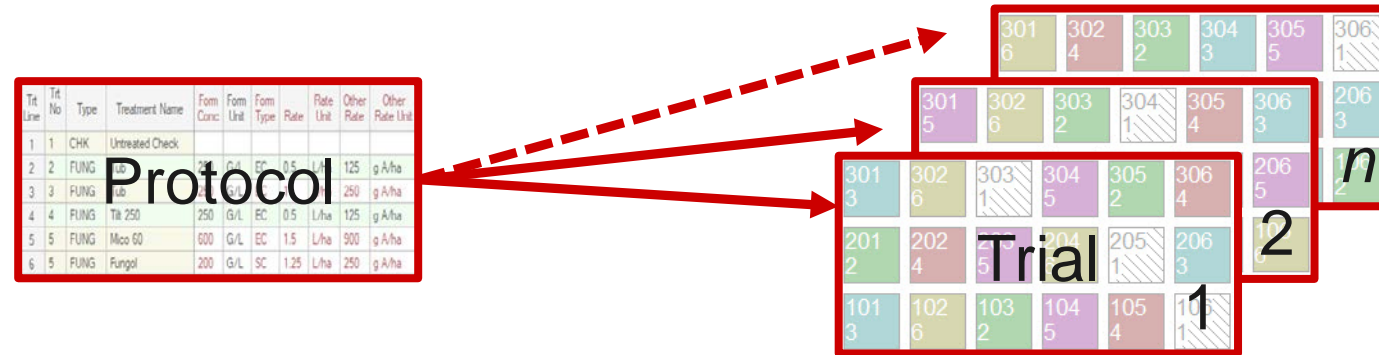
■ Countries with ARM clients



# ARM Software Workflow

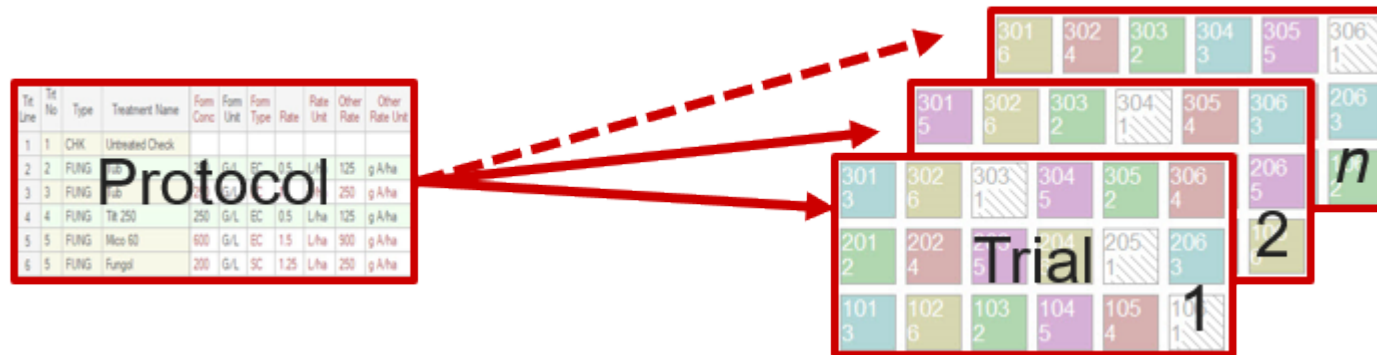


# Components of a study



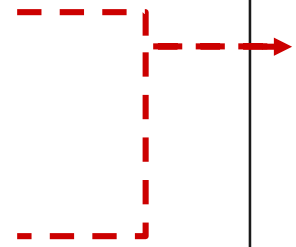
The **PLAN** for a research experiment

The **REALIZATION** of the protocol plan for a particular trial location



### Protocol Components:

- **Treatments** list
- **Planned assessments**
- **Study rules**



### Trial Components:

- Information from protocol
- Treatment **randomization**
- **Assessment data**
- Site Description
  - Application
  - Crop and Pest
  - Location



# Sharing information

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## Send To

- Combines:
  - Protocol with attachments, or
  - Trial with assessment images, reports, and other attachments
- Validates study for missing or invalid information before sending
- Share through email, cloud storage



## Data Export

- Converts trial information to preferred file types for additional analysis or graphing





Thank you!



**Learn more about ARM software!**

Watch video tutorials at

[www.gdmdata.com/Resources/Video Tutorials](http://www.gdmdata.com/Resources/Video%20Tutorials)

**Give ARM a try!**

Request a FREE demo version

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