



CSITC Task Force Contributions

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Round Trials - Introduction



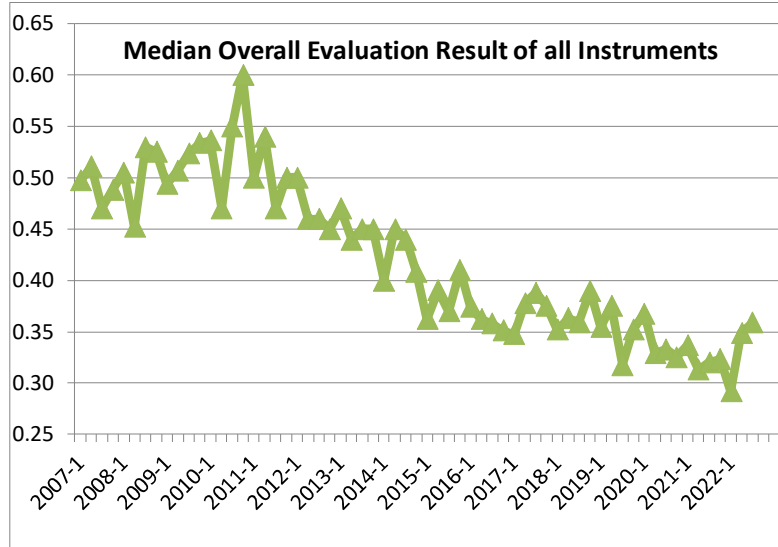
- CSITC Round Trials
 - Executed by ICAC, Faserinstitut Bremen, USDA-AMS
 - Conducted 4 times a year → CSITC RT 2022-3 ended last week
 - 4 samples, each tested 30 times (5 days x 6 tests)
 - Analysis of all properties
 - 6 properties for evaluation: Mic, Str, UHML, LU, Rd, +b
 - 4 properties for information: Trash Area, Trash Count, SFI, Maturity
- Analysis
 - Deviation between lab average and reference value (av of all labs)
 - For each property:
 - Average of the absolute deviations of all 4 samples
 - Divided by a scale value for achieving comparable unitless evaluation result
 - Scale value fixed based on USDAAMS reproducibility limits
 - **OER** Overall Evaluation Result as the average evaluation of the 6 properties
 - **So OER is a value showing in one value how far an instrument is deviating from the true results**

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CSITC Development of the Median OER



- Results were improving drastically since 2011
- Now a new status is achieved since 2019
- Tendencies in 2022?
- Since 2007 to 2010 OER is reduced = improved by 35%
- Improvement on all properties
- This means a 35% reduction of interlab. variation for all CSITC checked laboratories**
- This is a full success story!**

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CSITC Evaluation Results in Detail

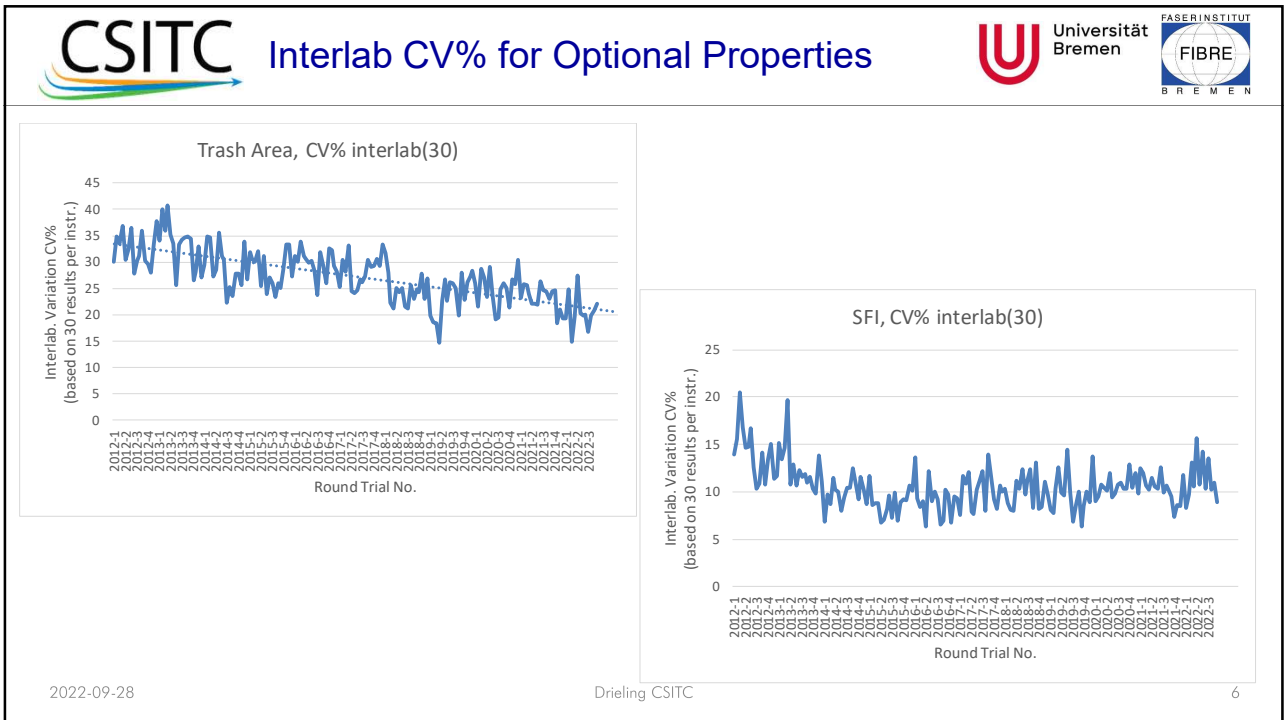
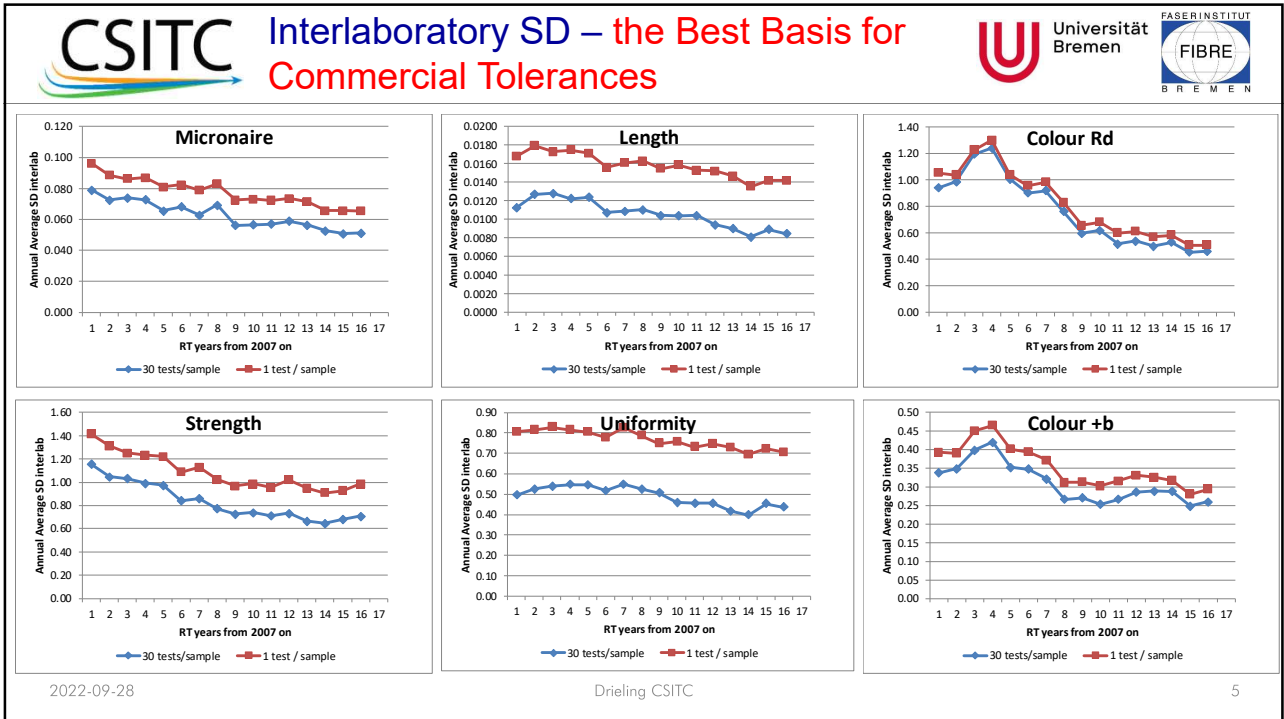


	Number of Participants		OER Distribution					Single Properties - Median Evaluations						Median Eval. Trash	
	Instruments	Labs	World: Median OE	World: best OER	World: 25% OER	World: 50% OER	World 75% OER	Evaluation Micronair	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b	Trash Cou	Trash Are
Scale Value								0.10	1.50	0.02	1.00	1.50	0.50	1.4 x USDA	1.2 x USDA
Relevance								1	1	1	1	1	1	0	0
min	69	47	0.292					0.30	0.25	0.25	0.23	0.20	0.25	0.20	0.25
max	160	96	0.600					0.64	0.64	0.52	0.49	0.71	0.74	0.42	0.43
AV 2007-11	95	66	0.51					0.51	0.47	0.41	0.37	0.50	0.49		
AV 2012-15	134	83	0.43					0.44	0.37	0.37	0.35	0.37	0.42		
AV 2015-19	130	77	0.36					0.38	0.33	0.34	0.32	0.25	0.37	0.31	0.35
AV 2020	108	60	0.34	0.16	0.26	0.34	0.46	0.35	0.30	0.30	0.27	0.24	0.37	0.29	0.37
AV 2021	106	59	0.32	0.15	0.26	0.32	0.45	0.34	0.30	0.32	0.30	0.21	0.35	0.26	0.34
AV 2022 (RT1-3)	104	56	0.33	0.15	0.27	0.33	0.43	0.35	0.32	0.30	0.32	0.22	0.35	0.22	0.30
2022-1	82	54	0.292	0.11	0.25	0.29	0.36	0.32	0.29	0.29	0.30	0.20	0.27	0.21	0.30
2022-2	99	53	0.349	0.16	0.28	0.35	0.50	0.41	0.33	0.30	0.34	0.21	0.34	0.24	0.31
2022-3	132	61	0.359	0.17	0.28	0.36	0.44	0.32	0.34	0.32	0.32	0.24	0.44	0.20	0.30
...															

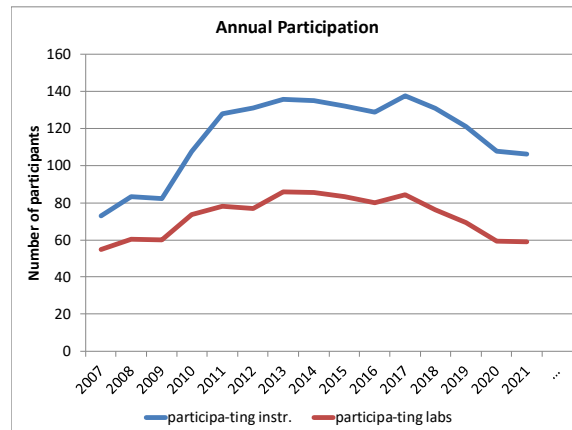
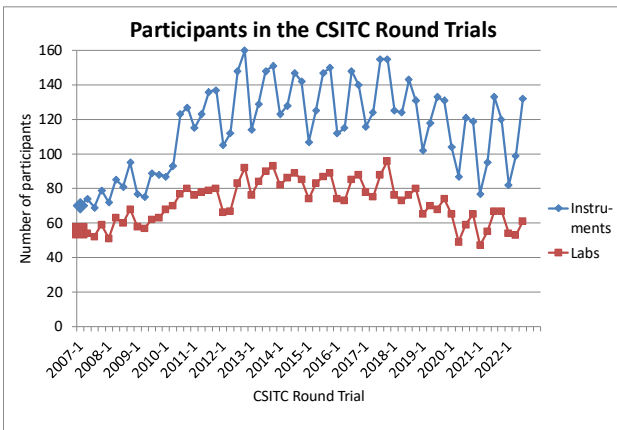
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CSITC Participation – Number of Participants



After achieving a maximum participation from 2012 to 2017, the number dropped again. It seems that we now achieved a constant level again.

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CSITC Participation – Regional Distribution



- Registered laboratories in 2022
- Laboratories from all continents
- Nearly all important cotton producing countries involved

Country	Labs
ARGENTINA	1
AUSTRALIA	4
BRAZIL	14
BURKINA FASO	1
CÔTE D'IVOIRE	3
CHINA	5
COLOMBIA	2
EGYPT	1
ETHIOPIA	2
GERMANY	1
GREECE	3
INDIA	13
ISRAEL	1
ITALY	1
KENYA	1
MALI	1
MEXICO	1
PAKISTAN	1
SENEGAL	1
SOUTH AFRICA	2
SPAIN	2
SUDAN	2
SWITZERLAND	1
TAJIKISTAN	3
TANZANIA	3
THAILAND	1
TURKEY	2
UGANDA	1
UNITED STATES	17
UZBEKISTAN	2
VIET NAM	1
ZIMBABWE	1

Continent	Countries	Labs
Africa	12	19
Asia	9	29
Australia	1	4
Europe	5	8
North America	2	18
South America	3	17

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CSITC Registered laboratories in 2022

- Registered laboratories in 2022
- Participation is clearly focused on cotton production/classing
 - The benefits from Round Trials are obvious for cotton production/classing
 - Independently from the kind of classing system
- **Spinning is less than 10% of the participating labs**

	Number	Percent
Cotton Production with Classing	13	14
Cotton Classing - Government	17	18
Cotton Classing - Association	20	21
Cotton Classing - Independent	19	20
Spinning Mill	9	9
Instrument Manufacturer	4	4
Govt / Research / RTC / Other	13	14



	Number	Percent
Production related	69	73
Spinning	9	9
Other	17	18

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CSITC Advertisement

- The abbreviation „CSITC“ is a burden
- CSITC logo
- Presentations
 - Short presentation – 4 slides
 - Hossein's presentation for spinners
- Advertising flyers
 - For spinners (2018)
 - For traders (2019)
 - missing:
 - for producers
 - for laboratory heads
- Info flyers
 - What you need to know about CSITC Round Trials (prior to registration)
 - Welcome to the CSITC Round Trials (after registration)
 - Missing: ?



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