



THE GLOBAL STANDARD
FOR LIVESTOCK DATA

Network. Guidelines. Certification.

Setting the Scene

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Milk Analyses Certification

ICAR

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Servicing laboratories and Quality Assurance tolls



THE GLOBAL STANDARD
FOR LIVESTOCK DATA

Annual Conference

ICAR2018.NZ

7 – 11 February 2018

Aotea Centre

Auckland,

New Zealand



Content

ICAR goals

ICAR PT purposes

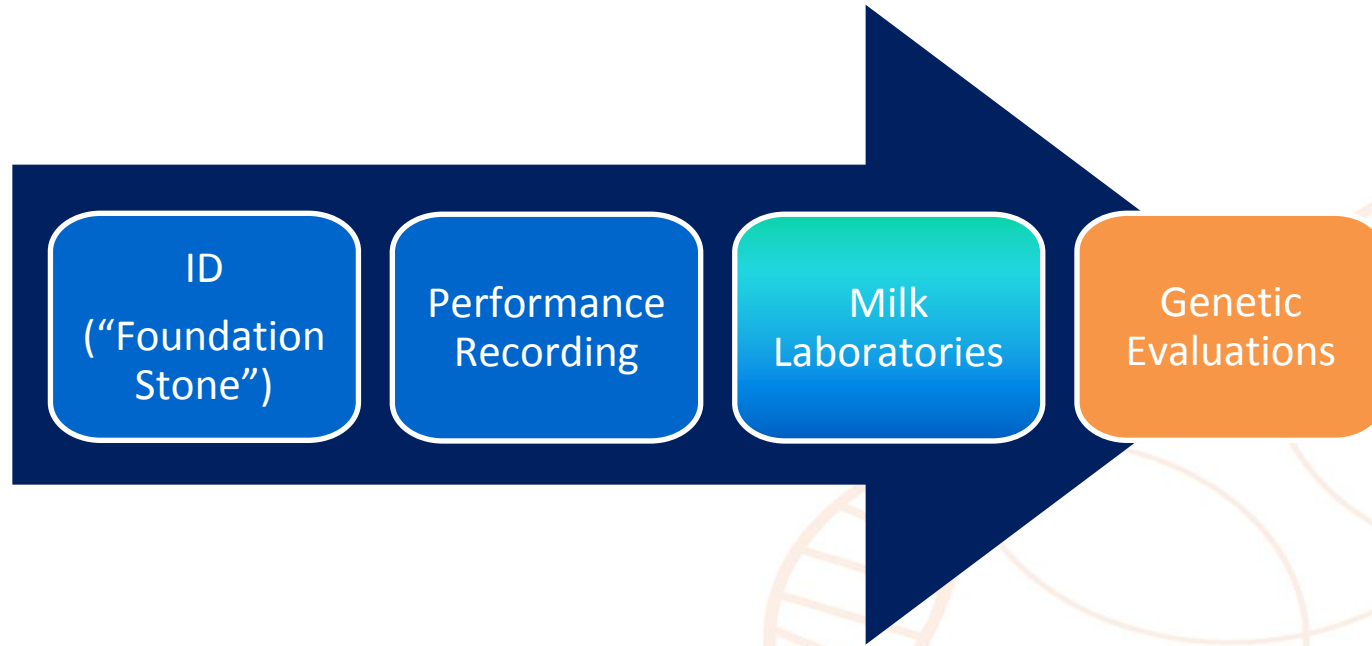
ICAR PT Goals 2018

ICAR Milk Analyzers certification



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ICAR's Building Blocks



ICAR Tools for the Milk Analyses

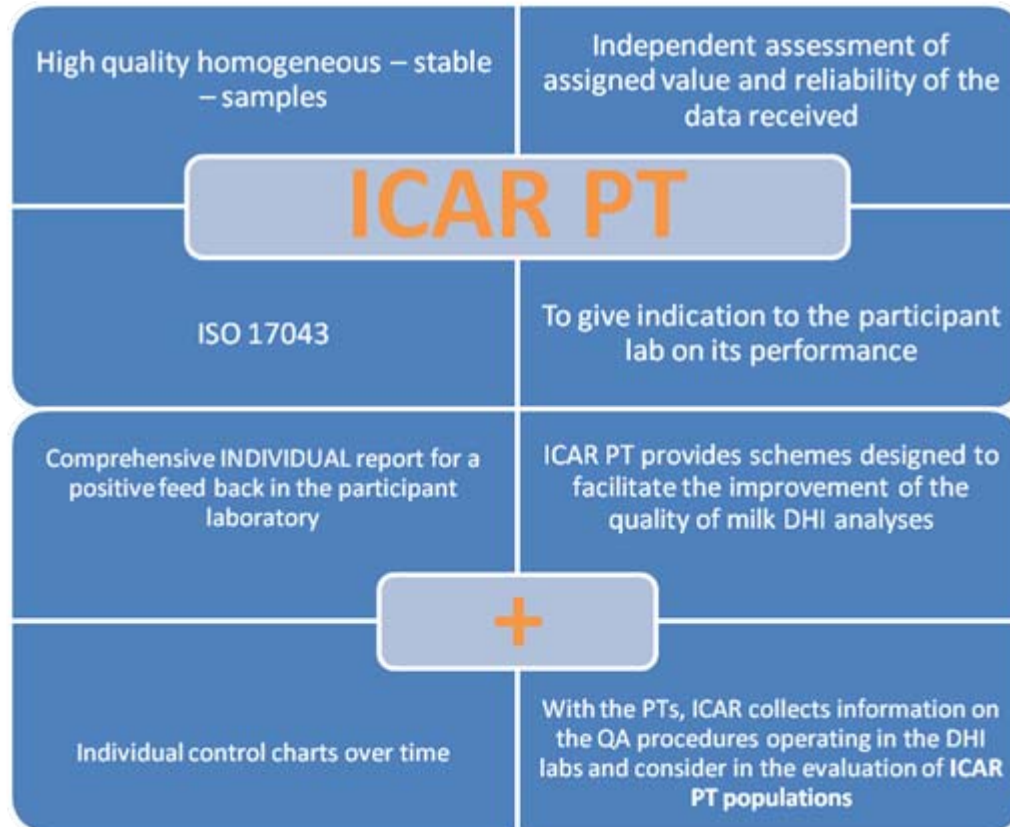
To promote and to maintain in the ICAR dairy laboratories the **highest** possible standard of **accuracy** and **precision** to built confidence in the comparability of measurements

ICAR Proficiency Test (PT)

ICAR Milk Analyzers Certification



Laboratory benefit to participate in...



Laboratory benefit to manage own PT



Routine Methods
Laboratory participation codes and Performance analyses

ICAR PT
RT0917

Laboratory Name

Your participation Codes						
Subscription	FA _{sub}	Protein _{sub}	Lactose _{sub}	Urea _{sub}	SH-B	RAQ
Participant Codes	Yes	Yes	Yes	Yes	No	No
Are all the sample results received?	Yes	Yes	Yes	Yes	No	No

B Data results received on time
14-09-2017

Have you sent the data with the correct units of measurements?						
	FA _{sub}	Protein _{sub}	Lactose _{sub}	Urea _{sub}	SH-B	RAQ
	g/100g	nitrogen g/100g	g/100g	mg/l	mmol/L	
	Yes	Yes	Yes	Yes		

* It was requested to report the value in total nitrogen

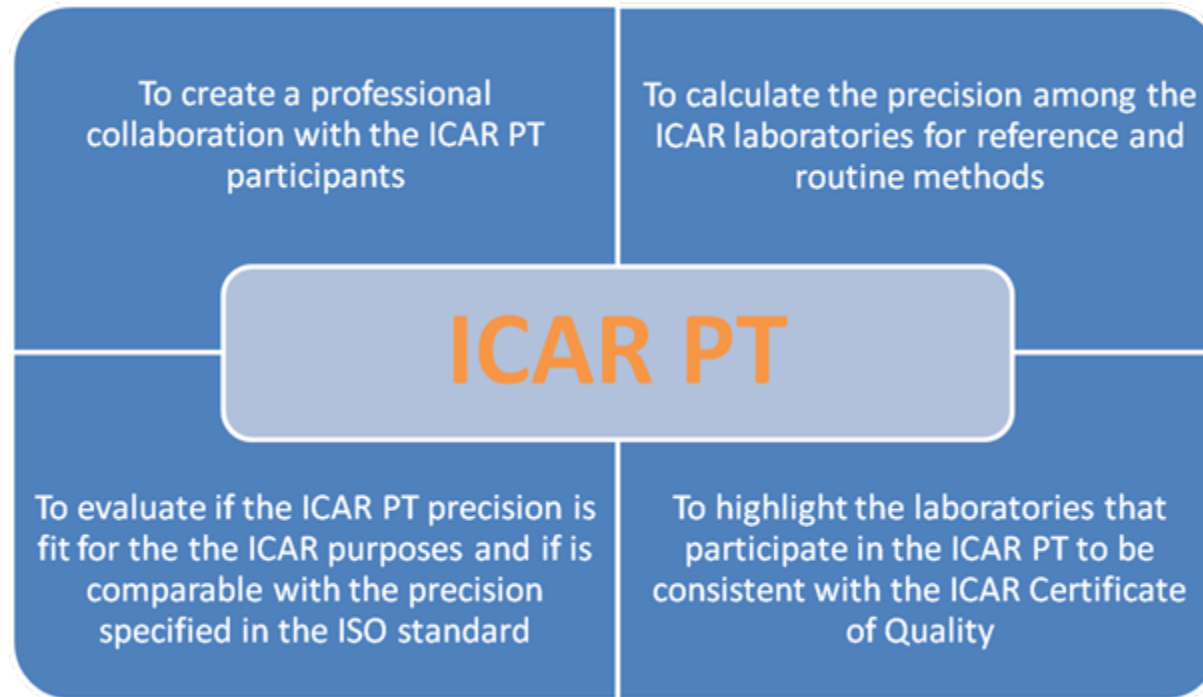
Ranking of your lab						
	FA _{sub}	Protein _{sub}	Lactose _{sub}	Urea _{sub}	SH-B	RAQ
	g/100g	nitrogen g/100g	g/100g	mg/l		
Code	3	3	3	2		
%	90	41	87	90		
S	0.011	0.016	-0.006	0.011		
SD	0.006	0.010	0.011	0.005		
D	0.111	0.020	0.007	0.206		
Method	IR	IR	IR	IR		
LIMS						
S	0.020	0.025	0.10	2.5	10	0.045
SD	0.020	0.020	0.10	1.5	10	0.045

Outliers						
	FA _{sub}	Protein _{sub}	Lactose _{sub}	Urea _{sub}	SH-B	RAQ
	g/100g	nitrogen g/100g	g/100g	mg/l		
Sample 1						
Sample 2						
Sample 3						
Sample 4						
Sample 5	Outlier					
Sample 6	Outlier					
Sample 7	Outlier					
Sample 8	Outlier					
Sample 9						
Sample 10						

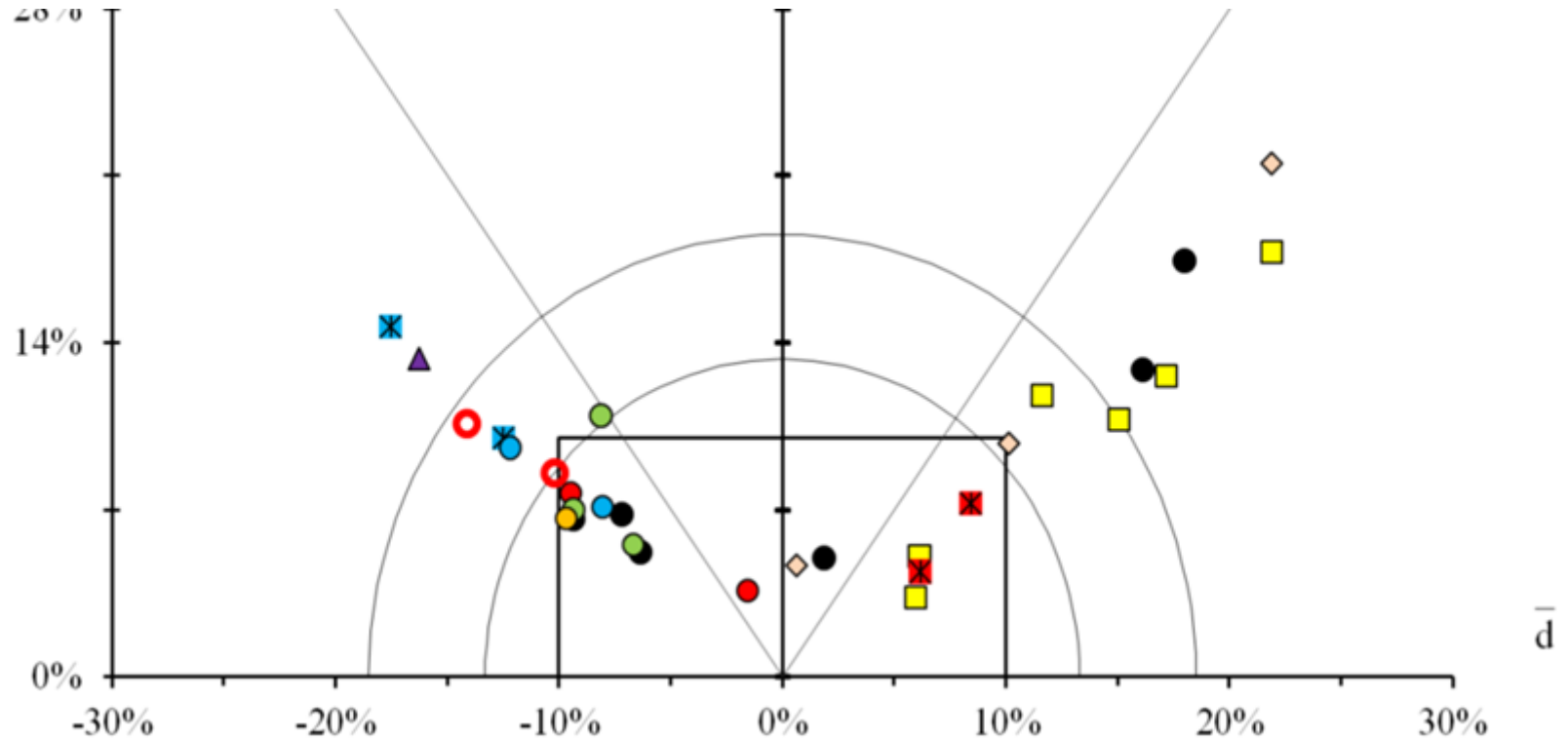


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ICAR benefits to manage own PT

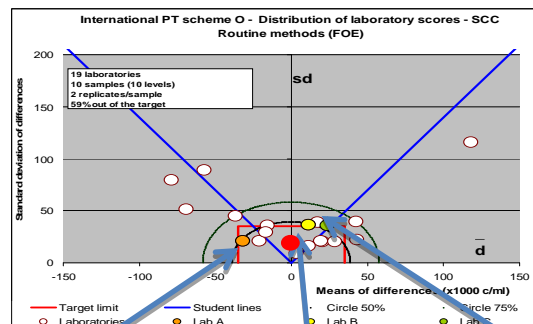


ICAR benefits to manage own PT

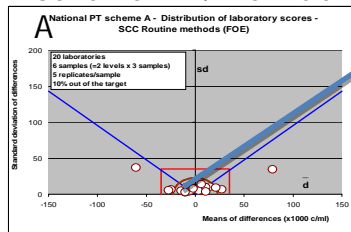


ICAR benefit to manage own PT

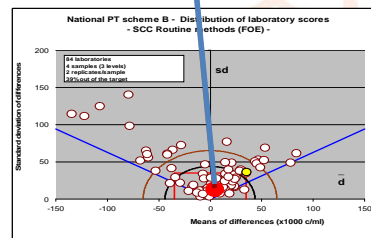
Scheme O



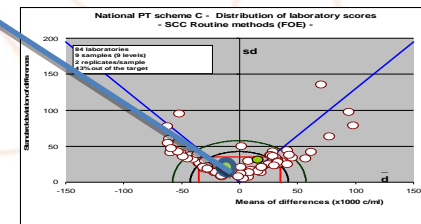
Scheme A \Rightarrow Ref Lab



Scheme B \Rightarrow Ref Lab B

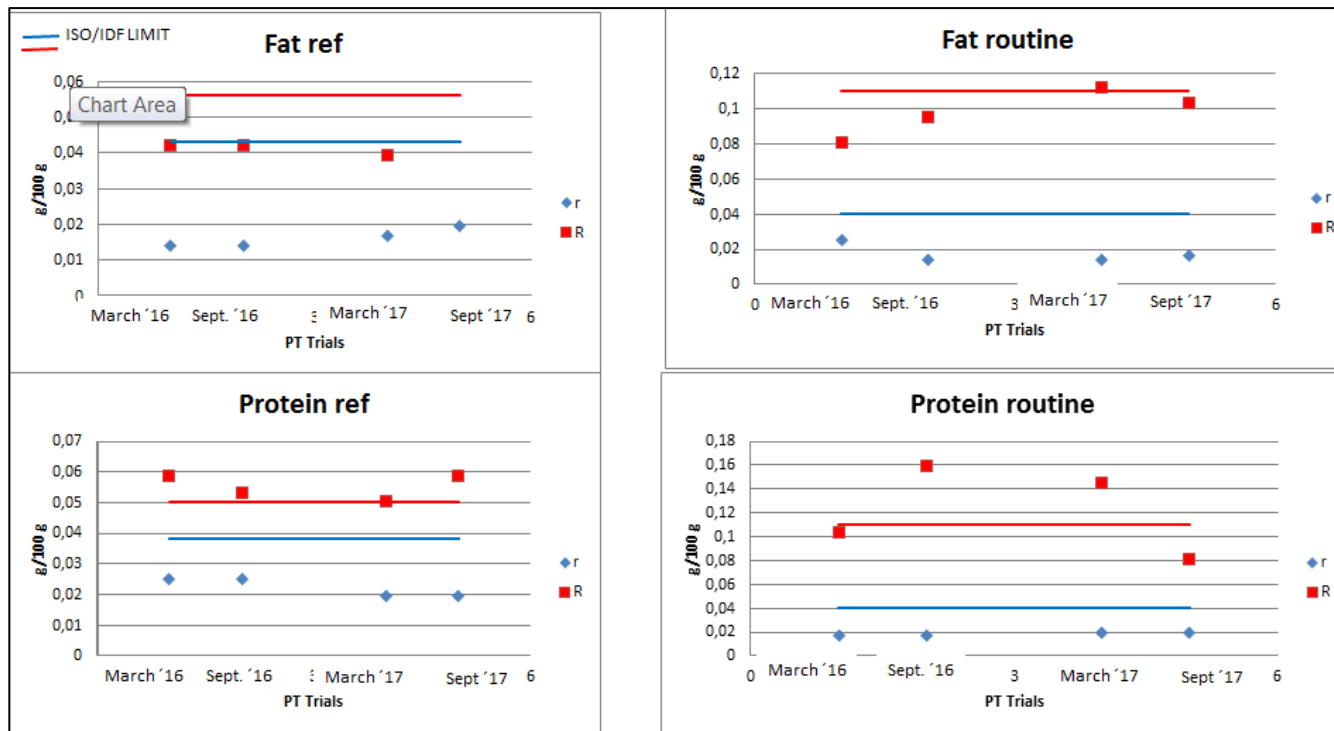


Scheme C \Rightarrow Ref Lab C



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ICAR benefits to manage own PT



COUNTRIES WITH AT LEAST ONE ORGANISATION PARTICIPATING TO THE ICAR PROFICIENCY TEST

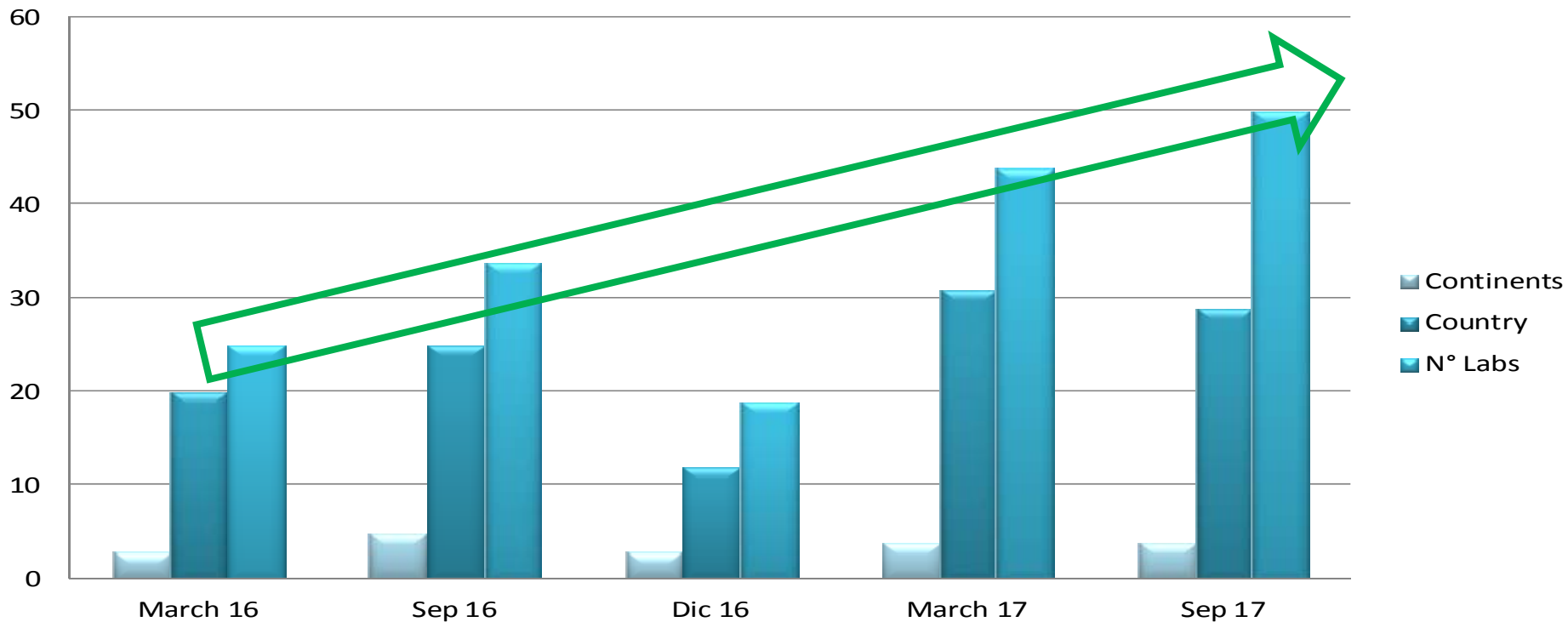




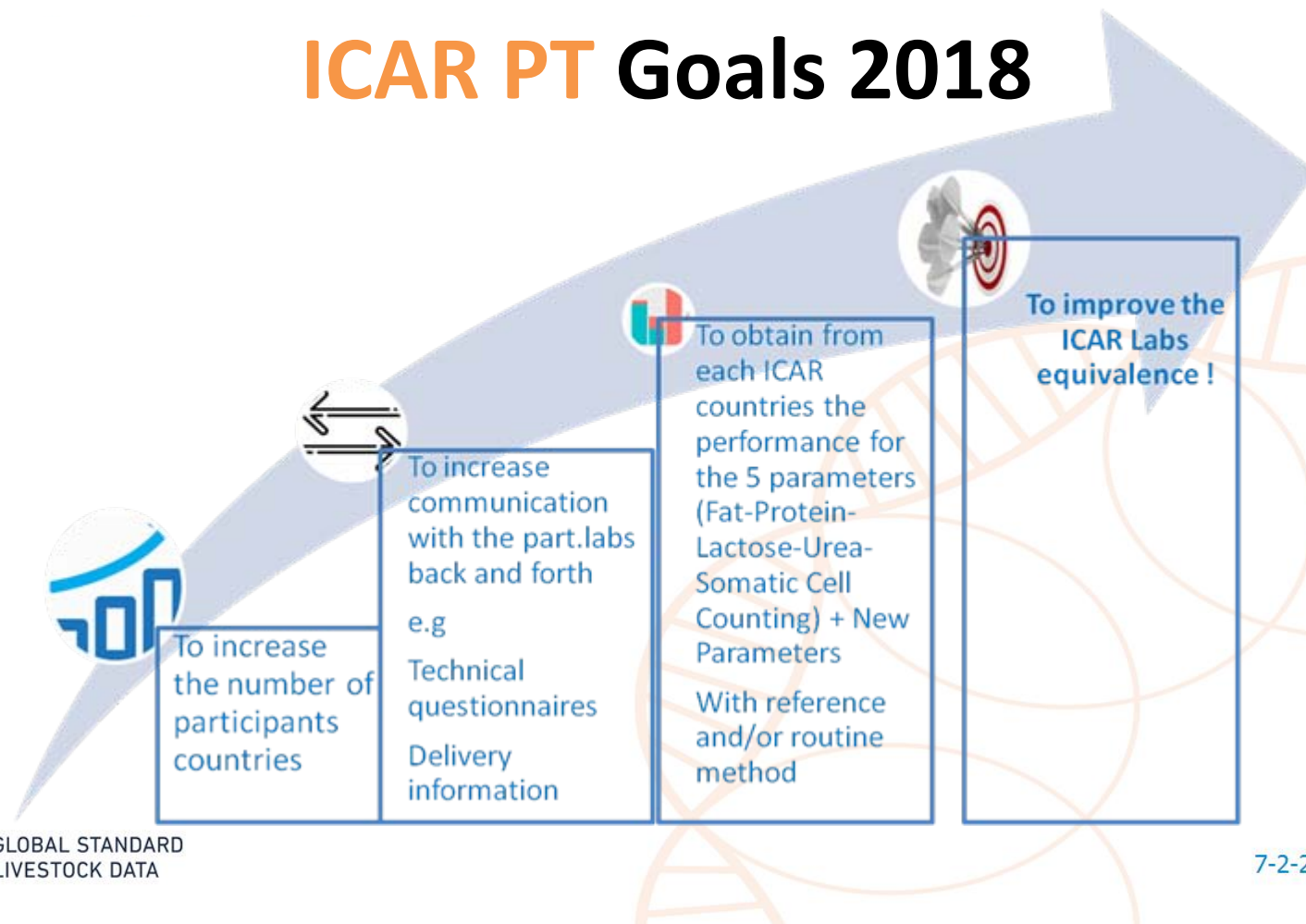
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Participants March 2016-Sept. 2017

Number of Continents-Countries-Labs



ICAR PT Goals 2018



MILK ANALYZERS CERTIFICATION

Grandfather Exception Certification

1 application in 2017 and certification released

New Model Instrument Certification



ICAR LABs

Objective evidences of the instrument performance

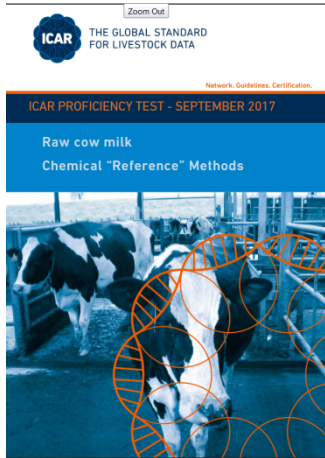
Indications on the best use for ICAR purposes

According ICAR protocol and ISO 8196-3 IDF 128-3



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Conclusions



ICAR is offering this initial Quality Assurance tools in milk analyses to create technical connections valuable exchange of practical aspects regarding the protocols application

The network is useful to collect also the future needs of DHI milk laboratories
For the coming analytical challenges !

...new activities and service will come



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Thank you

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