

THE NIA BIOMARKER NETWORK
ANNUAL MEETING
COLUMBUS, OH, April 17, 2024



BIOMARKERS IN SHARE

RELEASE OF BLOOD BIOMARKER DATA ASSAYED FROM DBS COLLECTED IN
2015

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SHARE: Quick facts

28

Countries Participating



39

Languages



18

Global Sister Studies



International



Longitudinal



Interdisciplinary



615 000

Taken Interviews



9

Waves of Data Collection



140 000

Respondents

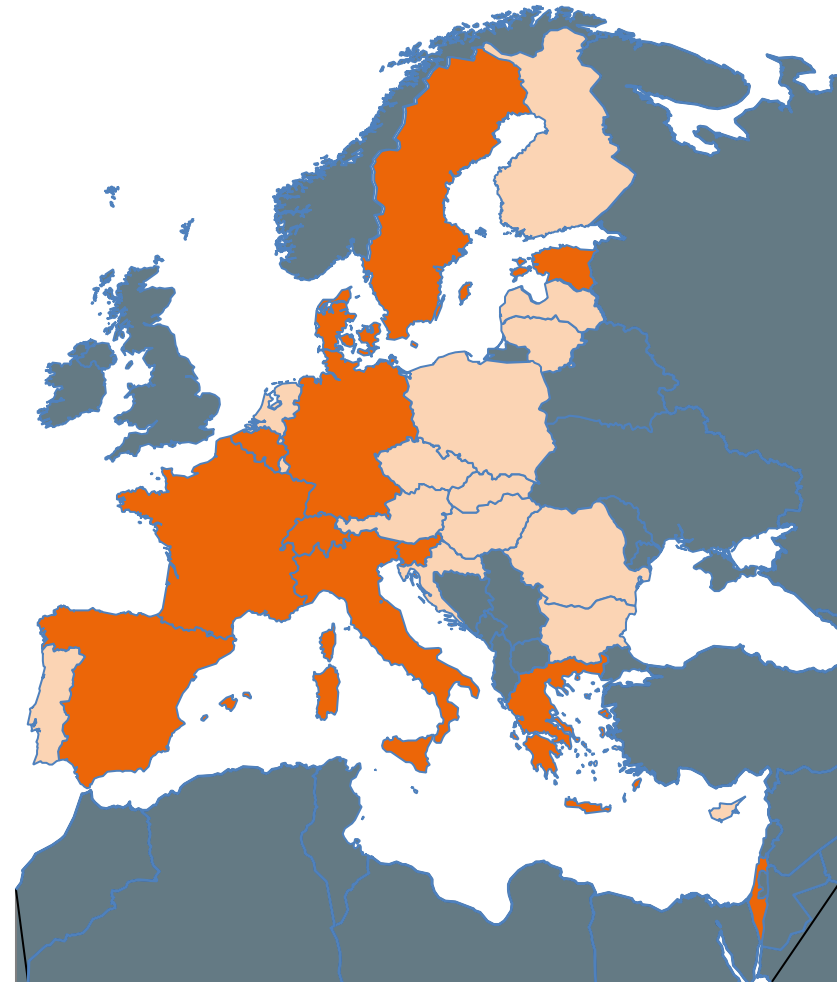


Respondents from 12 countries donated blood for DBS:

**Belgium, Denmark, Estonia,
France,
Germany, Greece, Israel, Italy,
Slovenia, Spain, Sweden,
Switzerland**

Ca. 27,200 samples were collected

Ca. 23,000 samples were analyzed for one to seven blood biomarkers

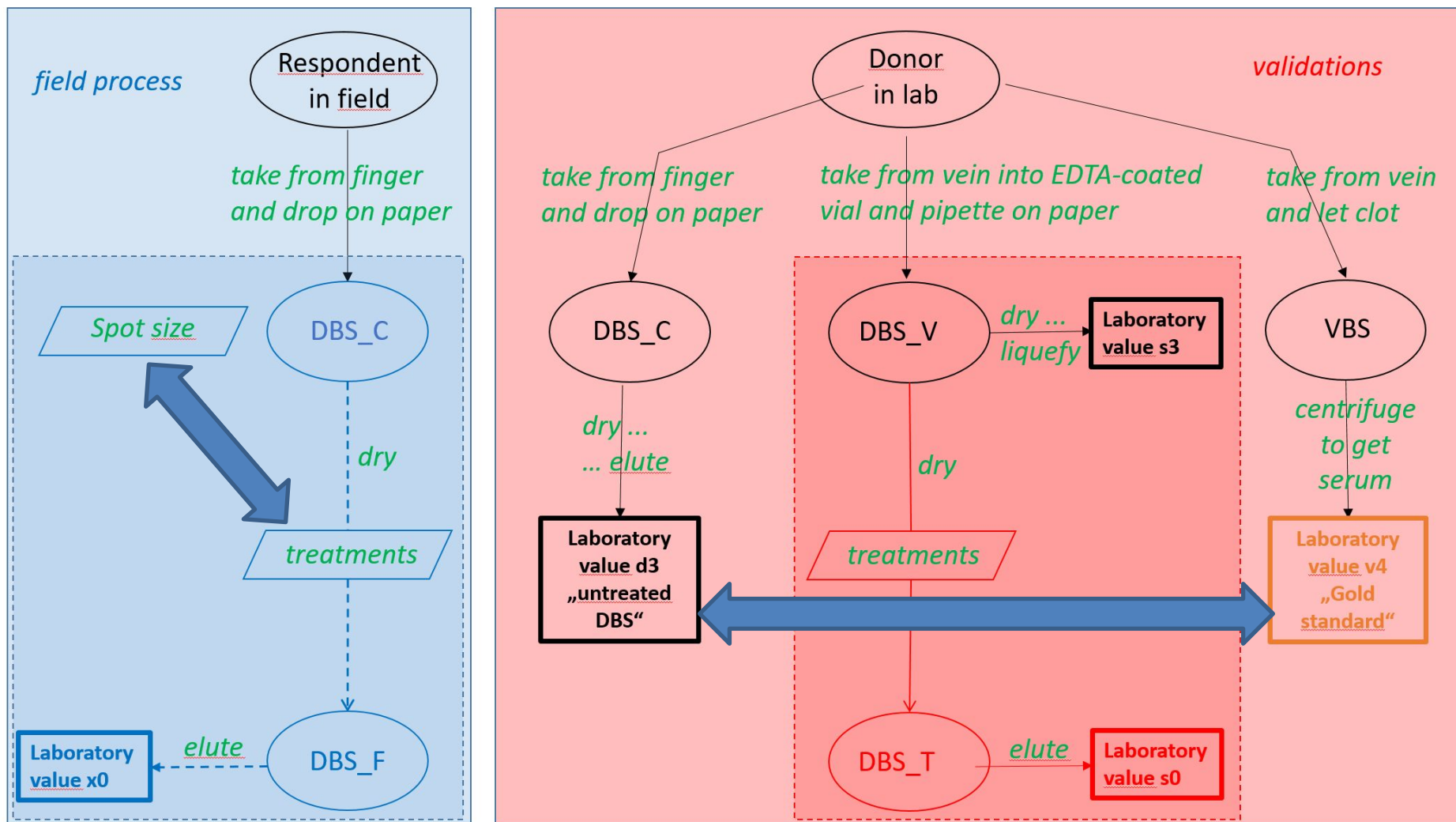


Routine blood biomarker data to be released now:

HbA1c	glycated Hemoglobin	(Diabetes)
THB	total Hemoglobin	(Anemia, Frailty, ...)
CHO	total Cholesterol	(CVD)
HDL	HDL-Cholesterol	(CVD)
TRG	Triglycerides	(CVD)
CRP	C-reactive protein	(general inflammation, CVD, ...)
CYC	Cystatin C	(kidney function, CVD, ...)

Analyses of the above blood biomarkers, were executed at the Department of Laboratory Medicine and Pathology, University of Washington, Seattle, WA, USA

Fieldwork biases and their corrections



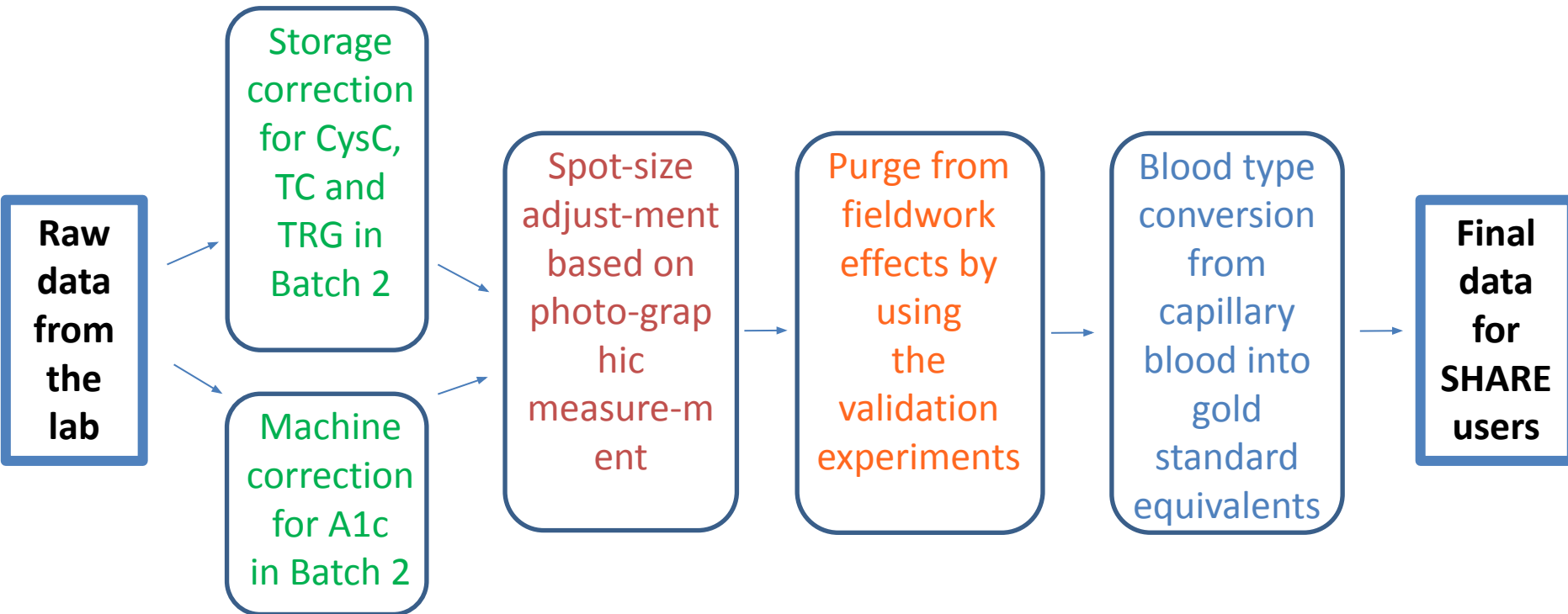
Correction steps and data release

1.
**Corrections
for
lab effects**

2.
**Corrections
for small
spot sizes**

3.
**Corrections
for fieldwork
environment**

4.
**Corrections
for
blood type**



		<u>THB</u>	<u>HDL</u>	<u>CHO</u>	<u>CRP</u>	<u>CYC</u>	<u>TRG</u>	<u>A1c</u>
Sweden	North	15.04***	73.18***	232.8***	3.01***	1.02***	227.5	6.01***
Estonia		14.69**	67.25***	223.0***	3.26**	0.98***	208.7***	6.01***
Denmark		14.96***	71.79***	226.9***	3.59	1.00***	206.2***	5.90***
Belgium		14.95***	69.56***	221.9***	3.40	1.00***	223.8***	5.98***
Germany		14.76	67.49	224.3	3.55	0.99	232.1	6.07
France		14.93*	69.79***	226.4*	3.16	0.98	236.7	6.00
Switzerland		14.95***	72.02***	232.2***	2.98***	1.02***	244.6***	5.99***
Slovenia		14.84	66.67***	221.6***	3.38	1.00*	235.2	6.16***
Italy		14.56***	64.10***	217.2***	3.32	0.99	222.0***	6.08
Spain		14.23***	62.21***	215.2***	3.58	0.96***	214.8***	6.21***
Greece		13.93***	61.81***	219.9***	2.78***	0.95***	221.5**	6.28***
Israel	South	14.14***	61.28***	204.2***	3.14**	0.93***	212.6***	6.10***

Controlled for age and sex differences, reference country is Germany, *** p<0.01, ** p<0.05, * p<0.1

THANK YOU!

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