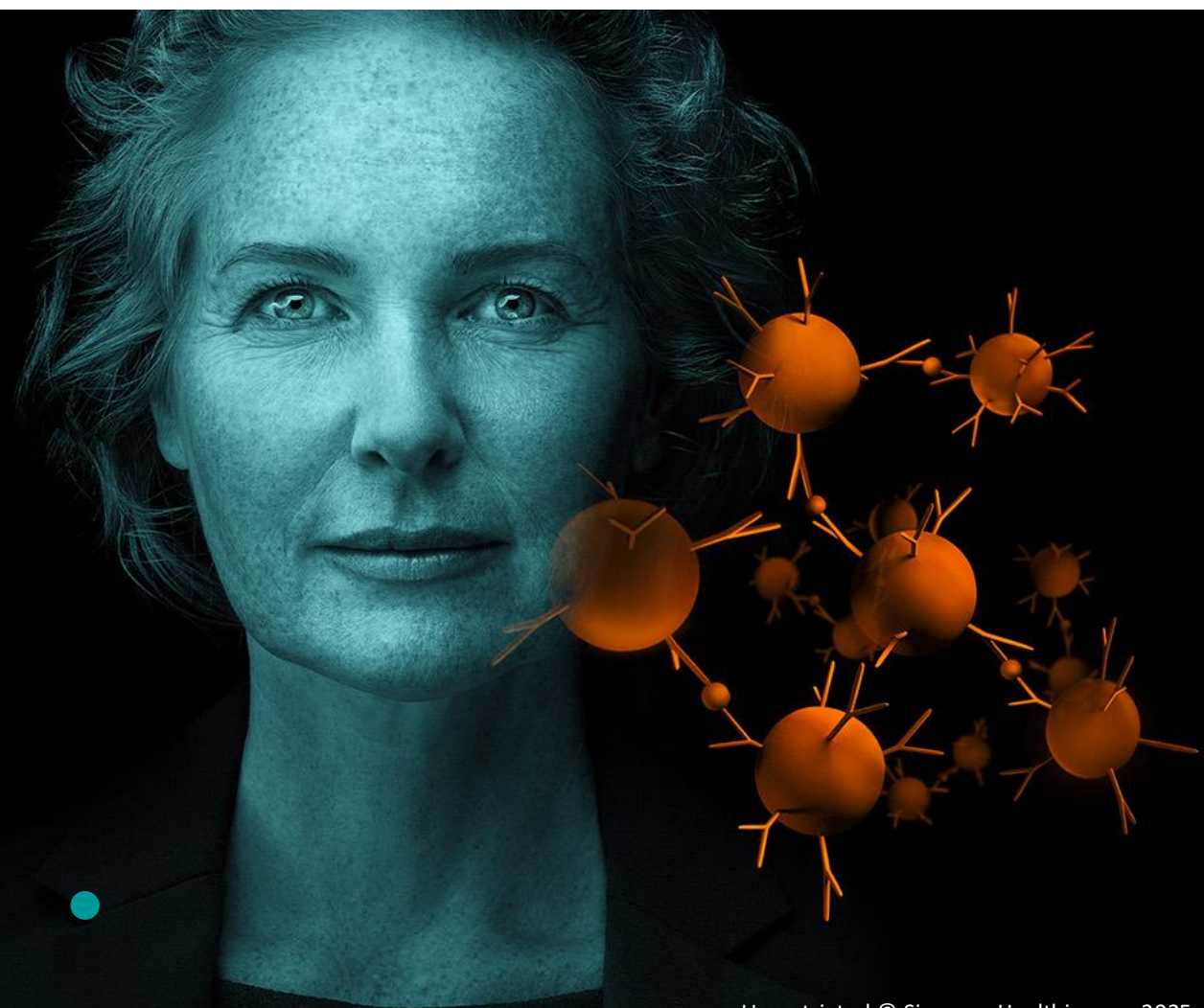
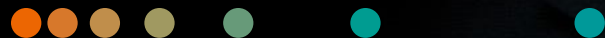
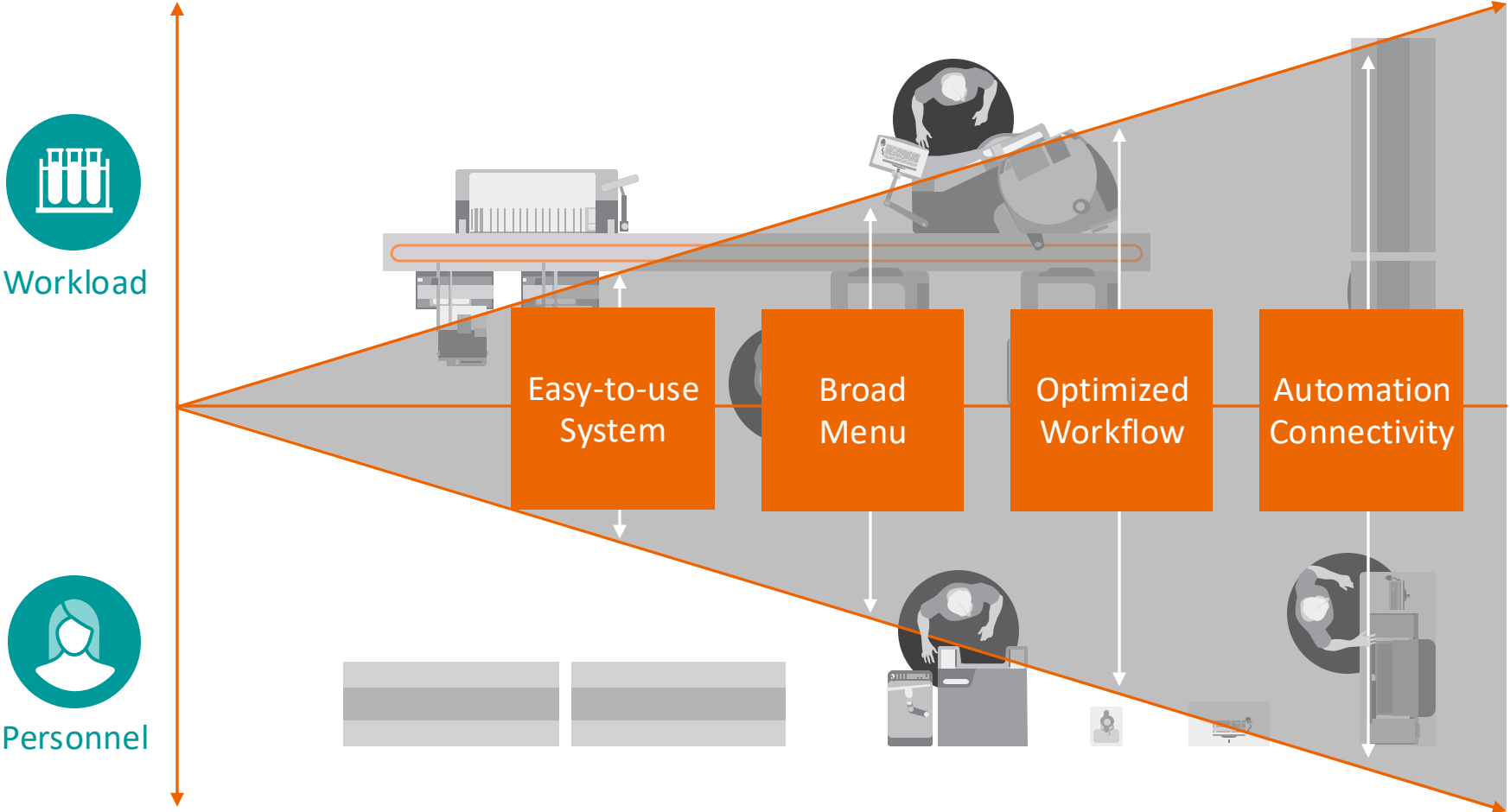


BN II System

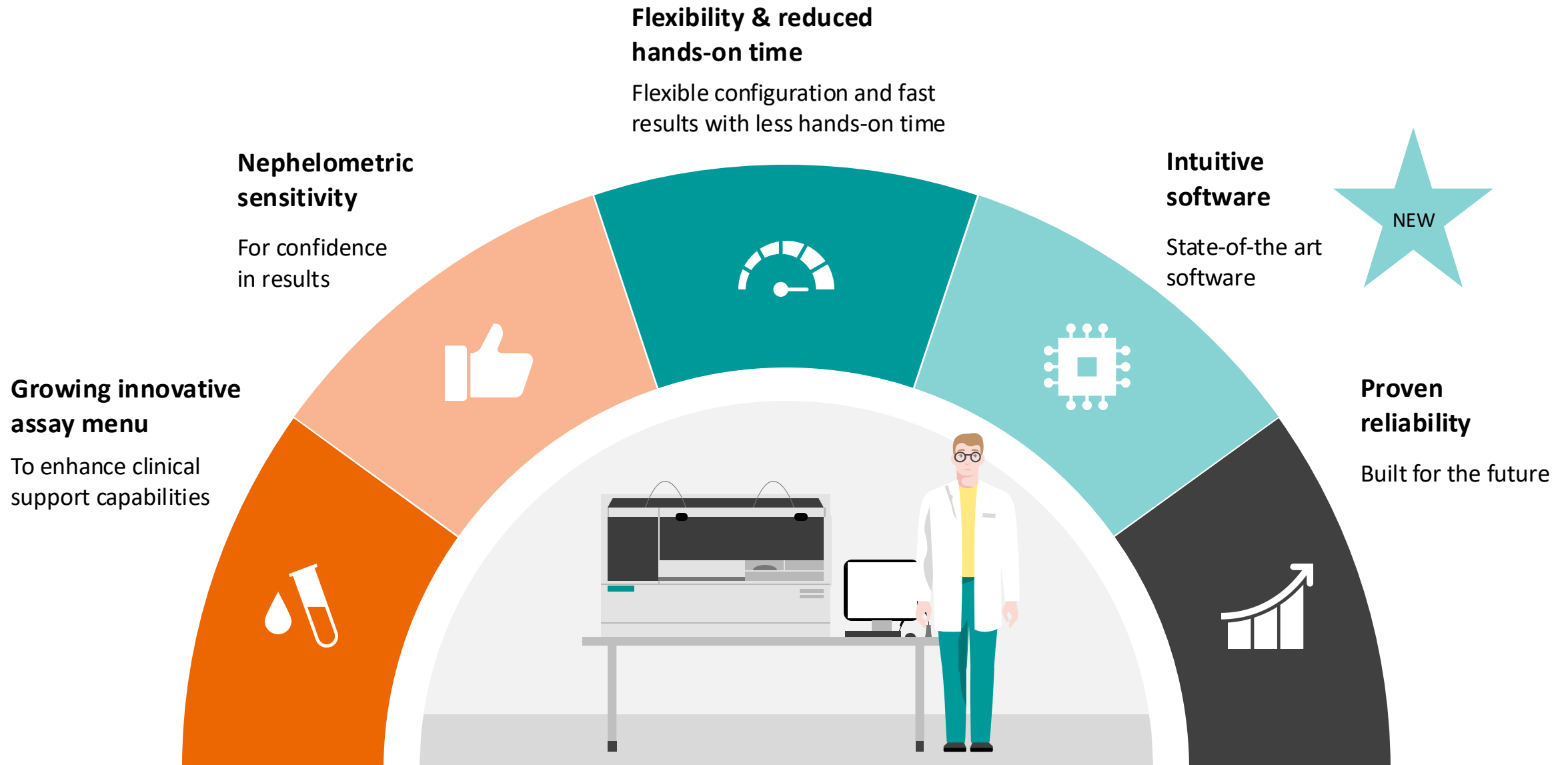
Built on proven nephelometric experience.
Designed for the future.



Growing challenges of a modern laboratory



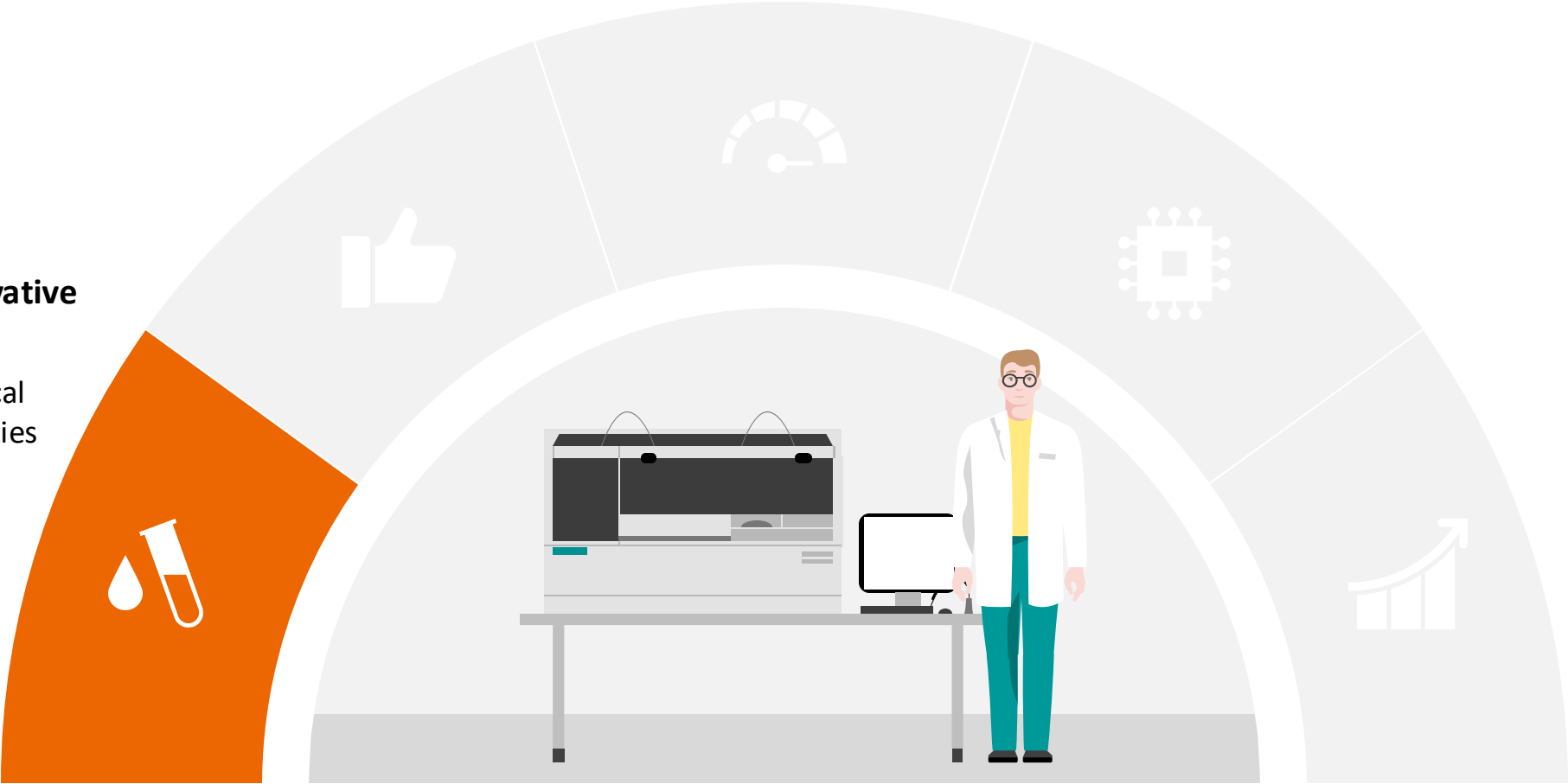
BN II System delivers



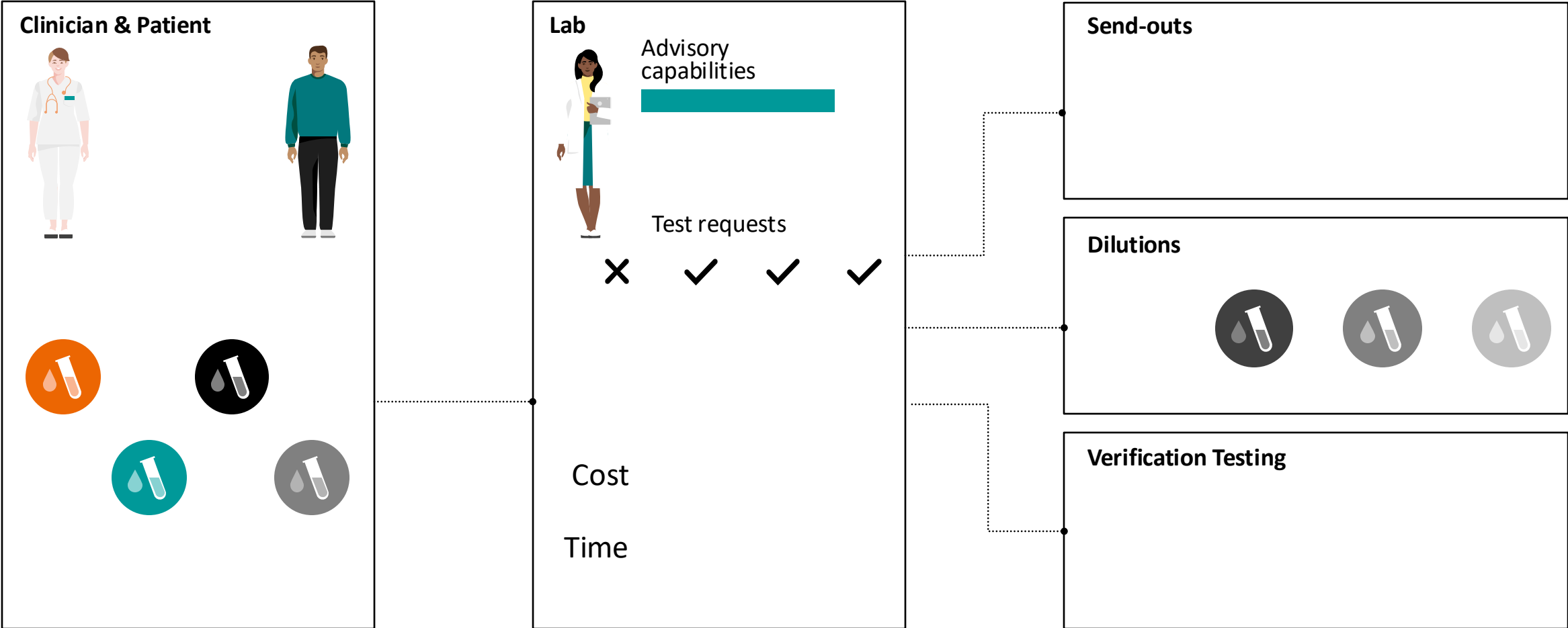
Growing innovative assay menu

Growing innovative assay menu

To enhance clinical support capabilities



Comprehensive plasma protein testing can be challenging



Increase Plasma Protein Menu and Reduce Send-out Costs



Improves lab's value to healthcare system

IgG
IgA
IgM
FLC lambda
FLC kappa
Total Lambda
Total kappa
B2-macroglobulin

IgG1
IgG2
IgG3
IgG4

β-trace protein (RUO)*

Ceruloplasmin
Fibronectin

Ferritin
Haptoglobin
Homocysteine
SILP
Transferrin

C1 esterase inhibitor
C3c
C4



Streamlining plasma protein testing



Increase laboratory expertise



Reducing potential for errors

Financial payoff

100 samples



\$4000 Savings

Improved patient outcomes

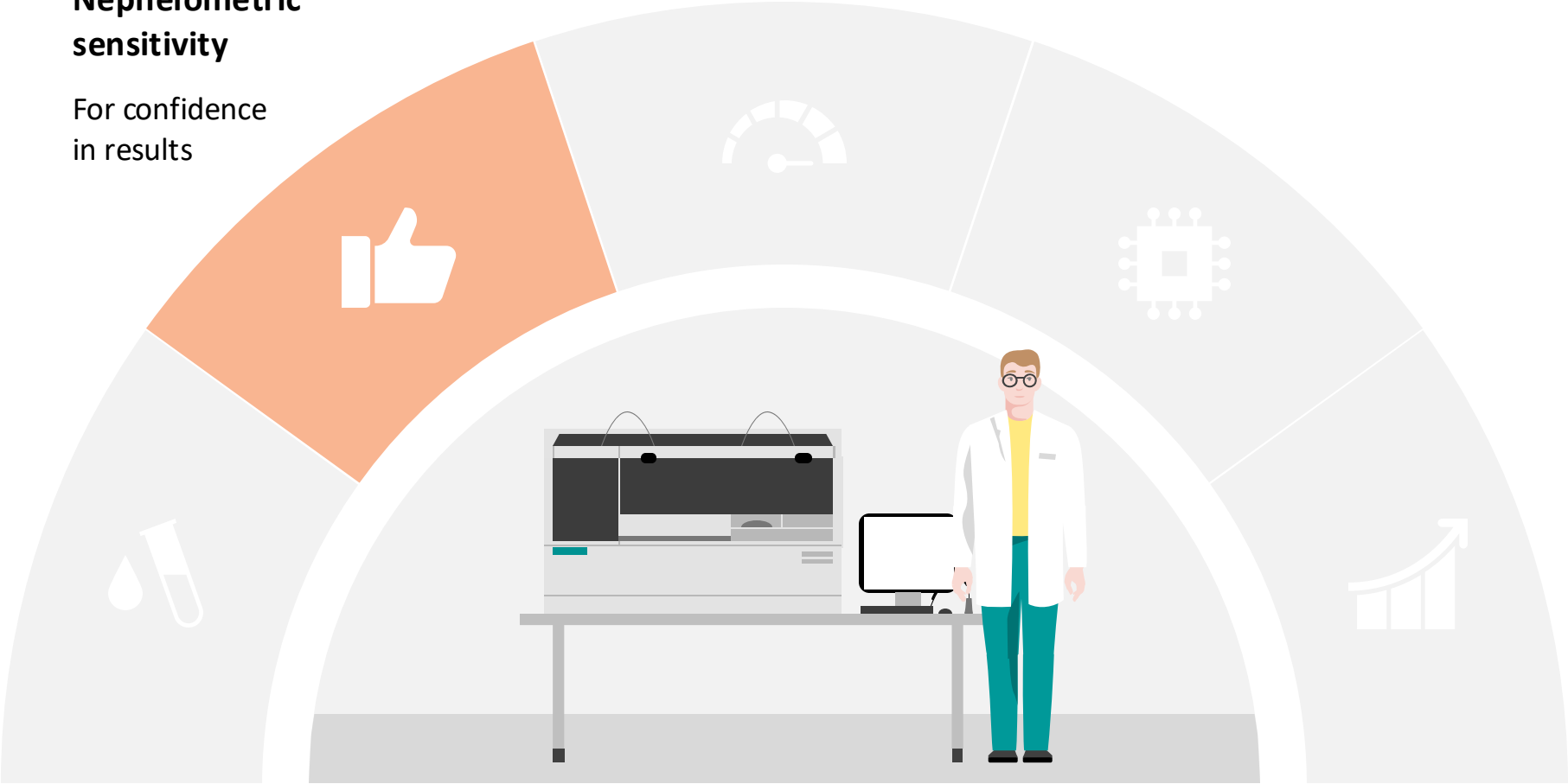


*Research Use only

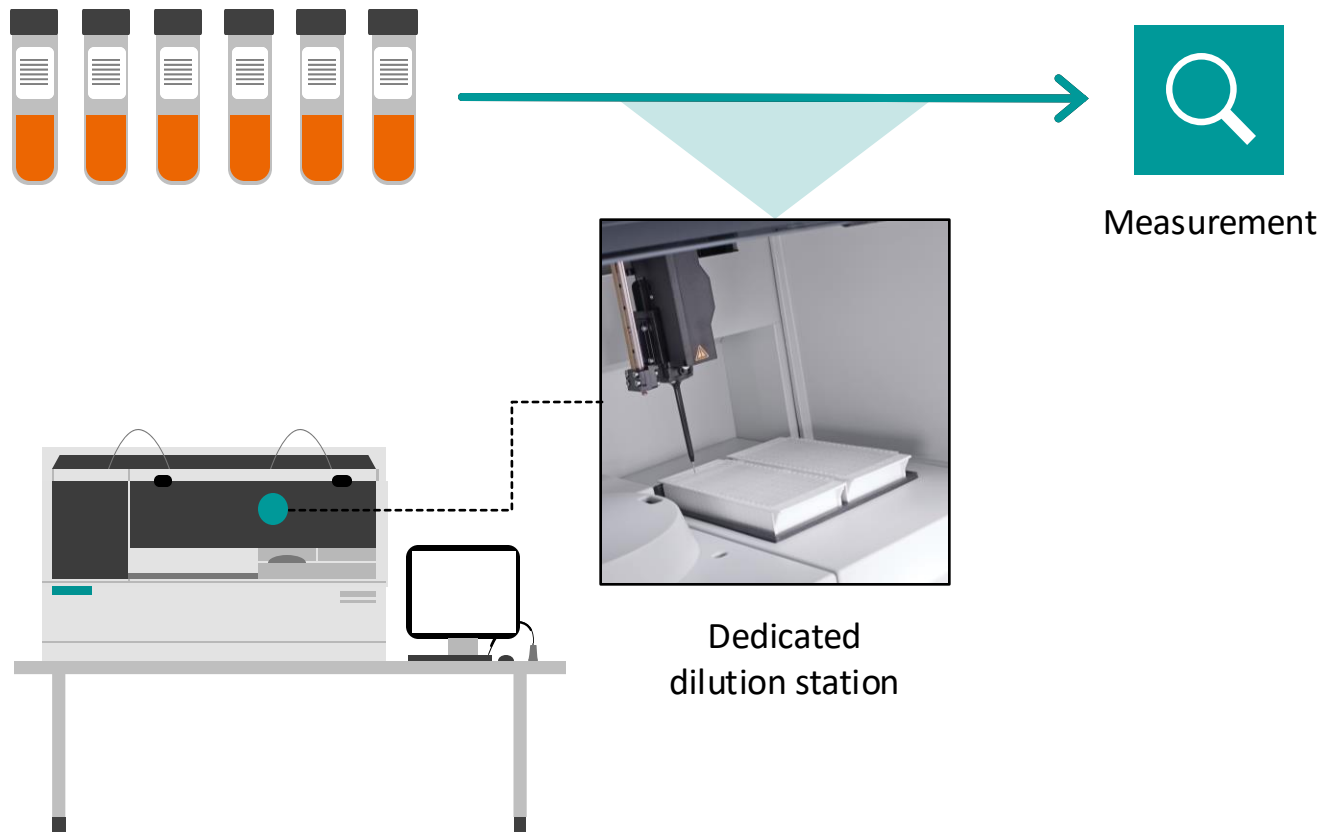
Nephelometric sensitivity

Nephelometric sensitivity

For confidence in results



Nephelometer with dedicated dilution station



Dedicated serial dilutions provide more accuracy – **up to 1:160,000**



Preserving precious samples volumes by avoiding additional sample uptakes for each separate dilution



Quick sample release – sample volume is stored in the dilutions

Convenient reagent handling

Reagent
probe

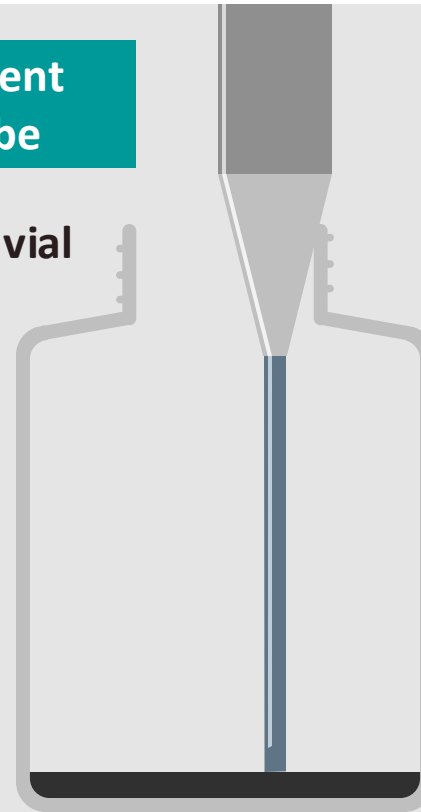
Straight vial



Residual liquid
volume

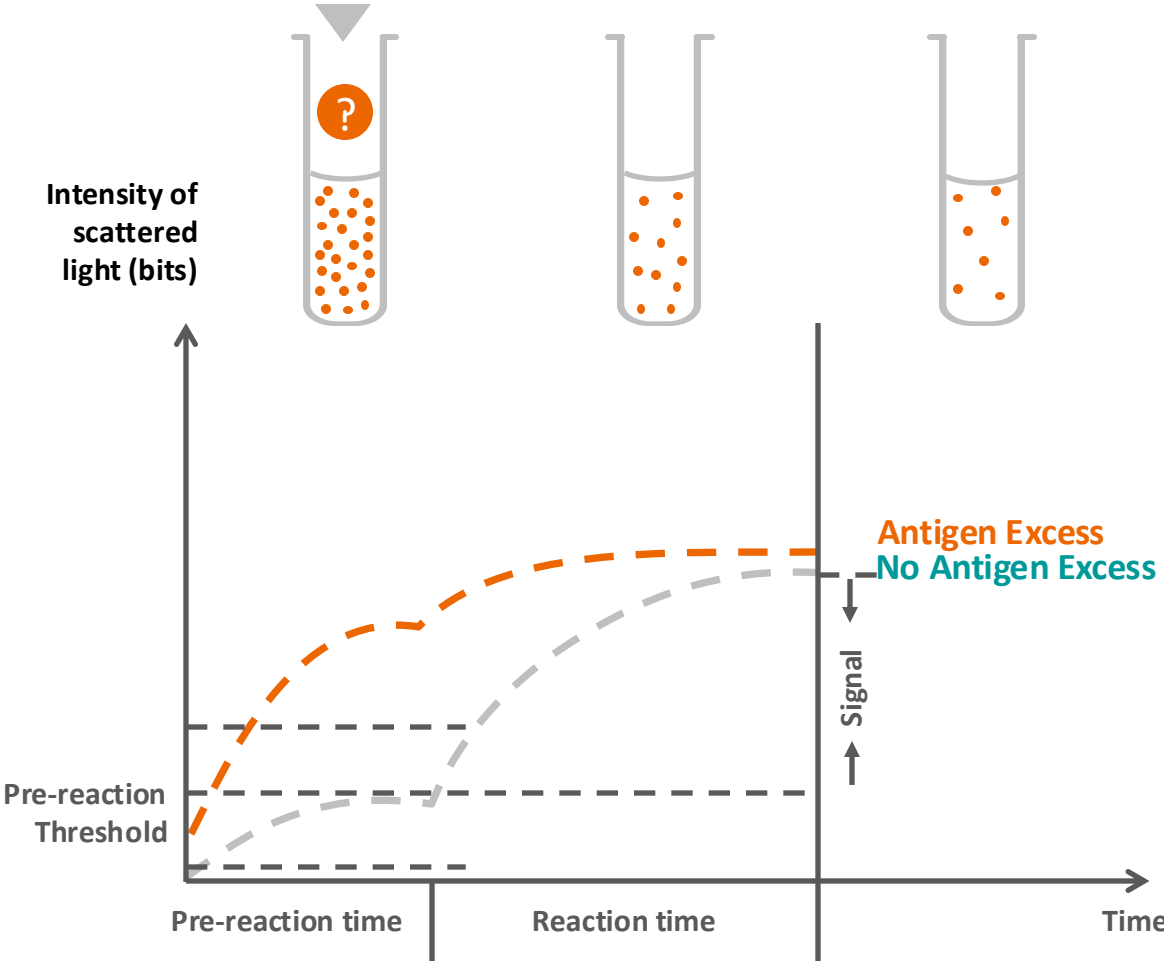
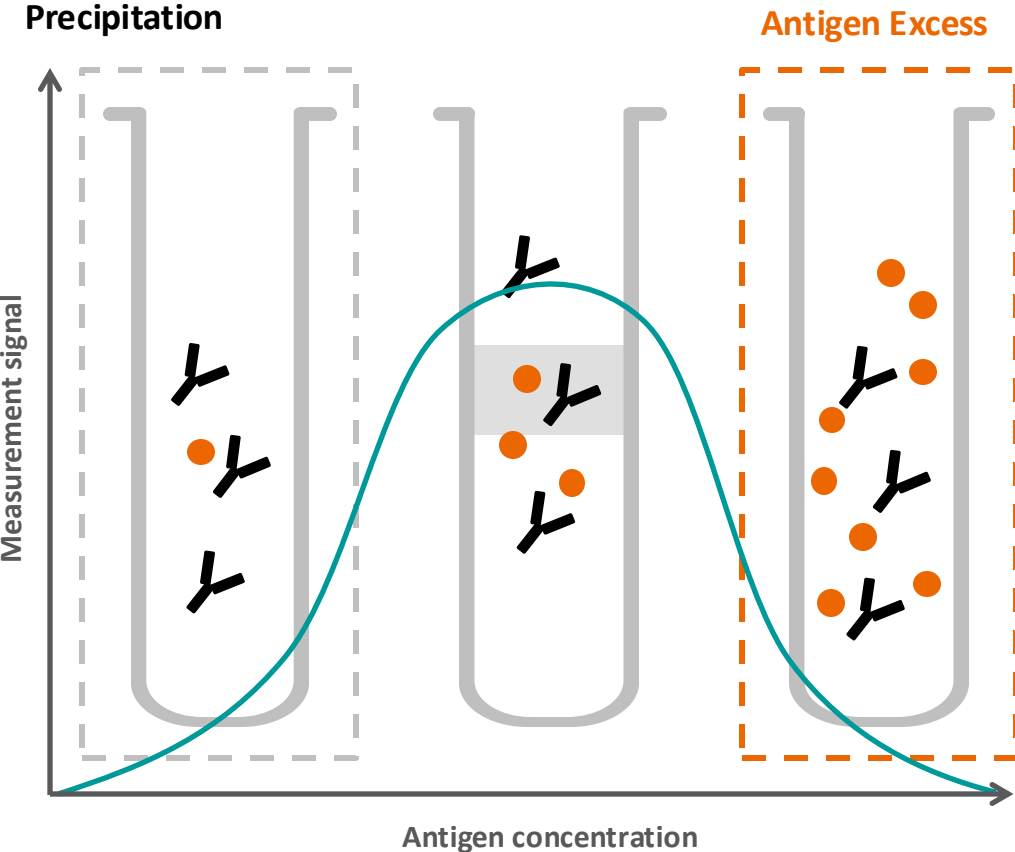
Reagent
probe

Tilted vial

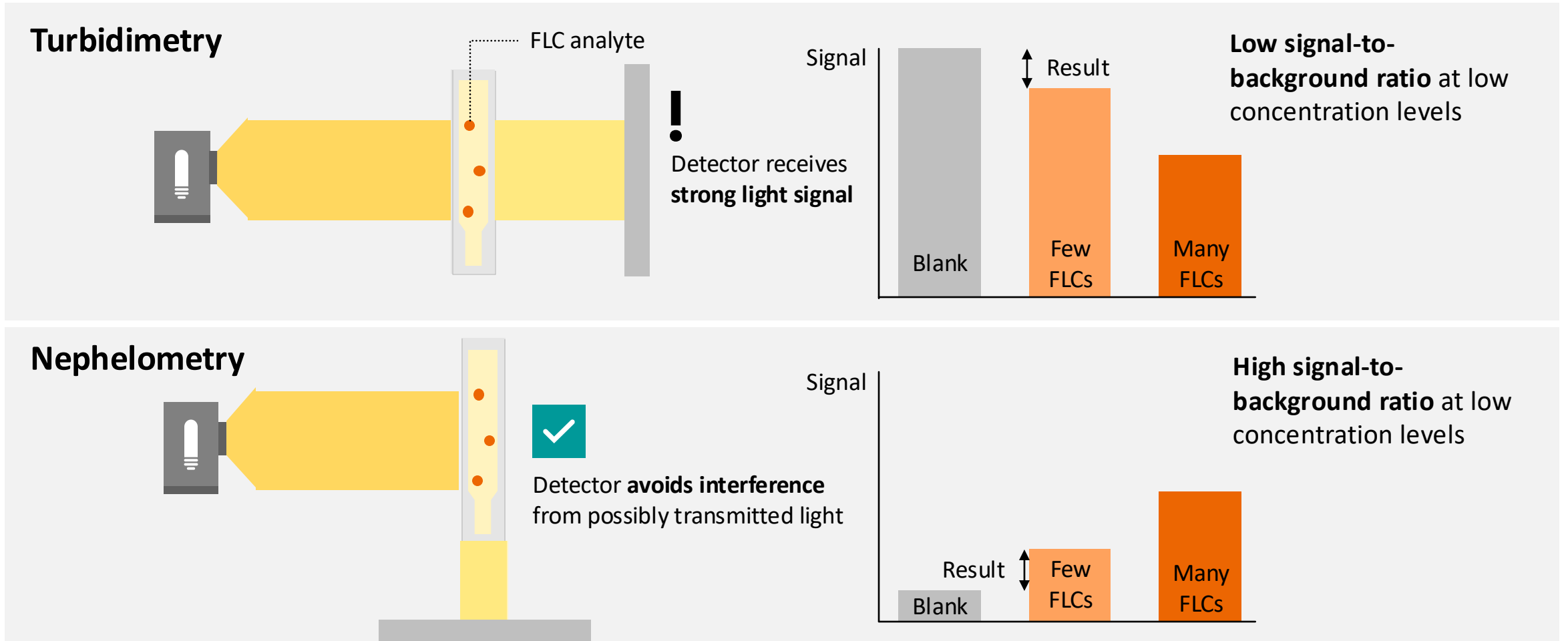


Minimizes
dead volume

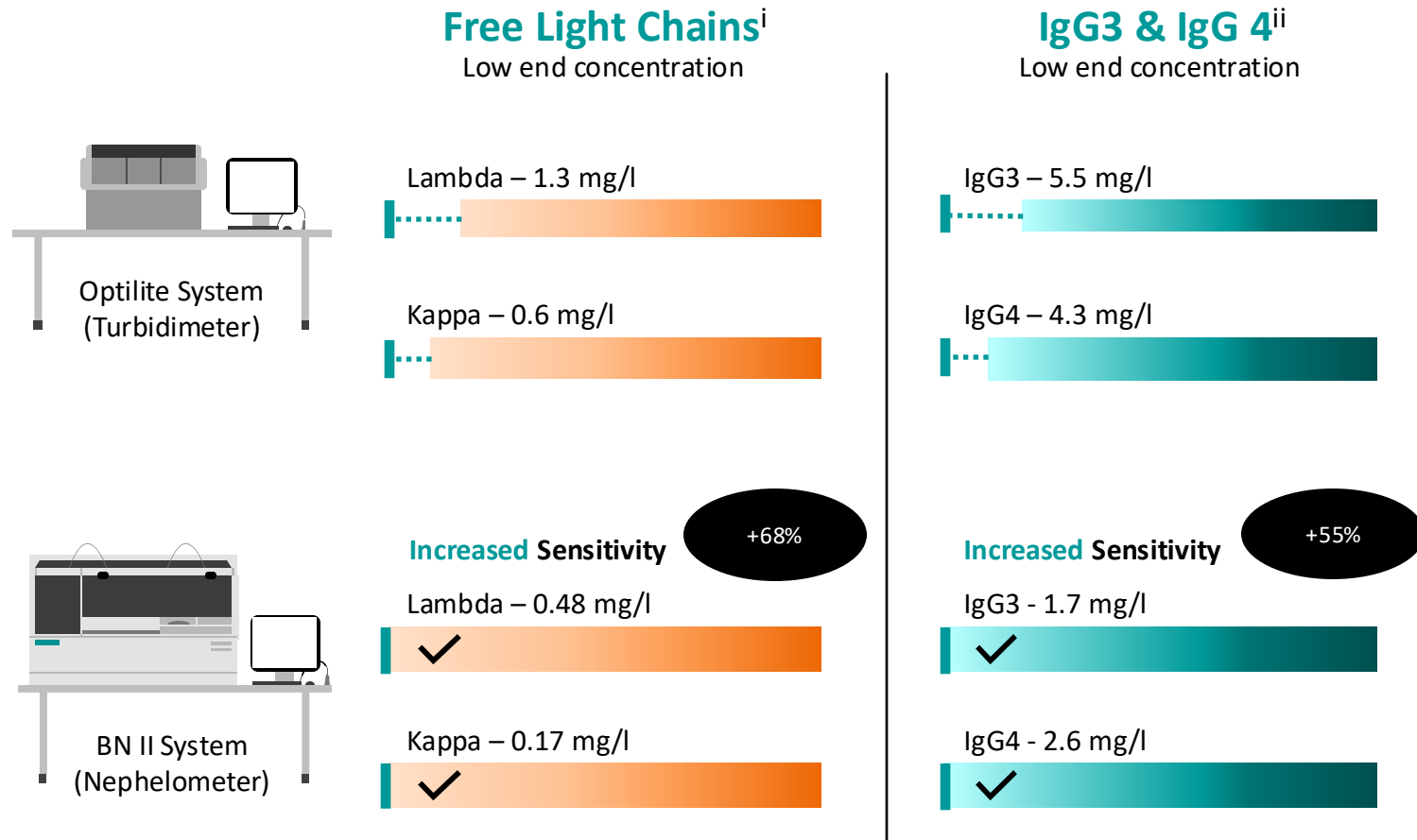
Antigen excess checks



Nephelometry offers excellent sensitivity



Nephelometric sensitivity of Latex-based assays on



Why sensitivity matters

- Immunosuppressive therapies lowers Immunoglobulin concentration, and the FLC ratio is a fraction which jumps drastically at low concentrations¹

Nephelometry in the guidelines

IMWG Guidelines

“The free light chain (FLC) assay is an automated **nephelometric** assay that identifies and measures **κ and λ light immunoglobulin chains** that circulate unbound to heavy chains in the serum.”²

ESMO Guidelines

“Diagnosis of MM should be based on the following tests: Detection and evaluation of the monoclonal (M) component by serum and/or urine protein electrophoresis (concentrate of 24h urine collection); **nephelometric quantification of IgG, IgA and IgM immunoglobulins**; characterisation of the heavy and light chains by immunofixation; and **serum-free light-chain (FLC) measurement.**”³

¹Pratt et al. Br J Haematol. 2007;138(5):563-79

²Rajkumar et al. Lancet Oncol 2014; 15: e538-48.

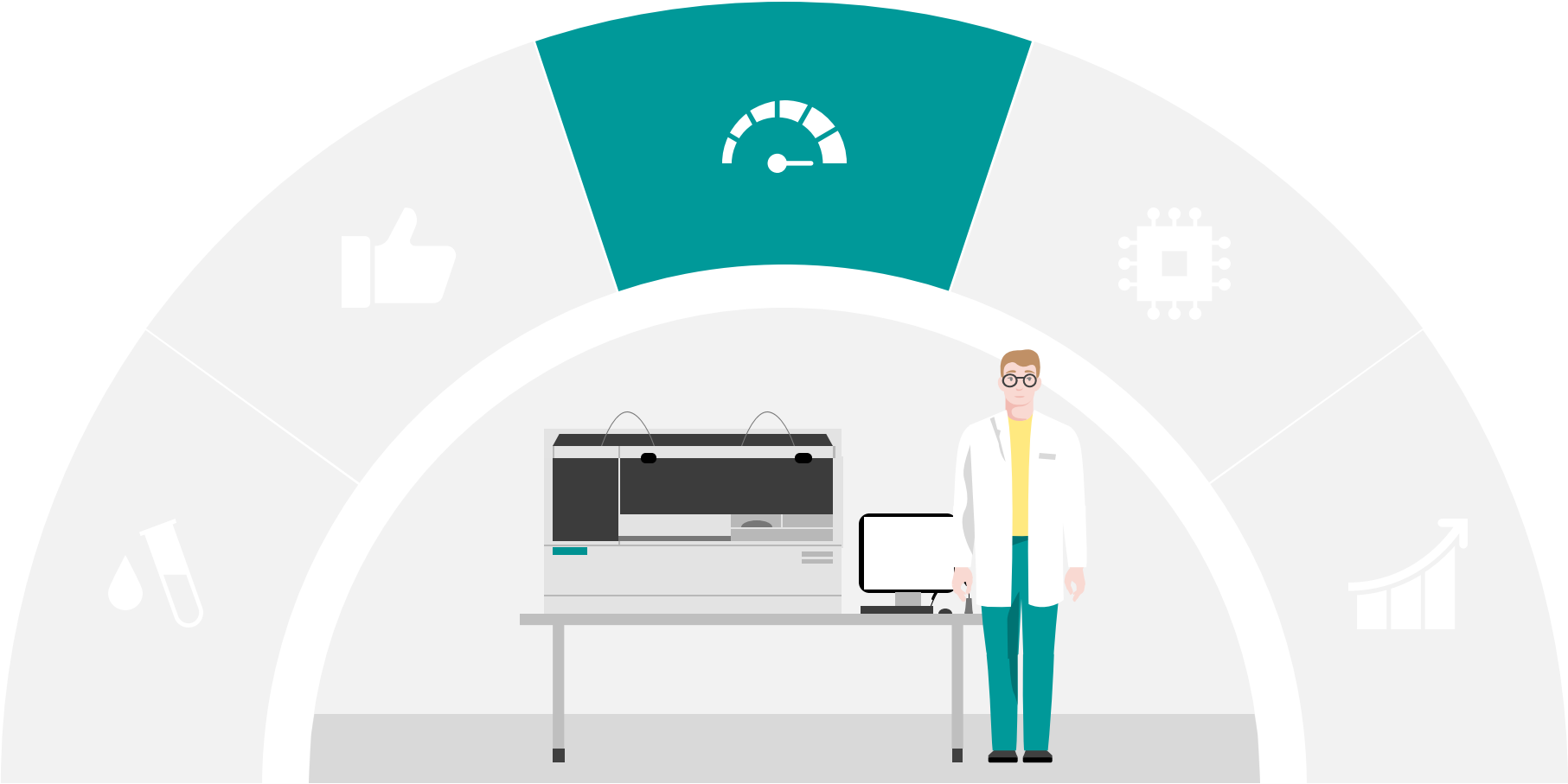
³Moreau et al., Annals of Oncology 28 (Supplement 4): iv52–iv61, 2022.

ⁱ⁻ⁱⁱInstructions for use from manufacturers

Flexibility & reduced hands-on time

Flexibility & reduced hands-on time

Flexible configuration and fast results with less hands-on time



Flexible sample handling

CSF



Plasma



Serum



Urine



Less hands-on time



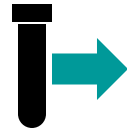
Fast results

Securely process different types of samples on one platform

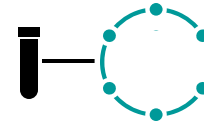
Improve your lab's productivity & efficiency



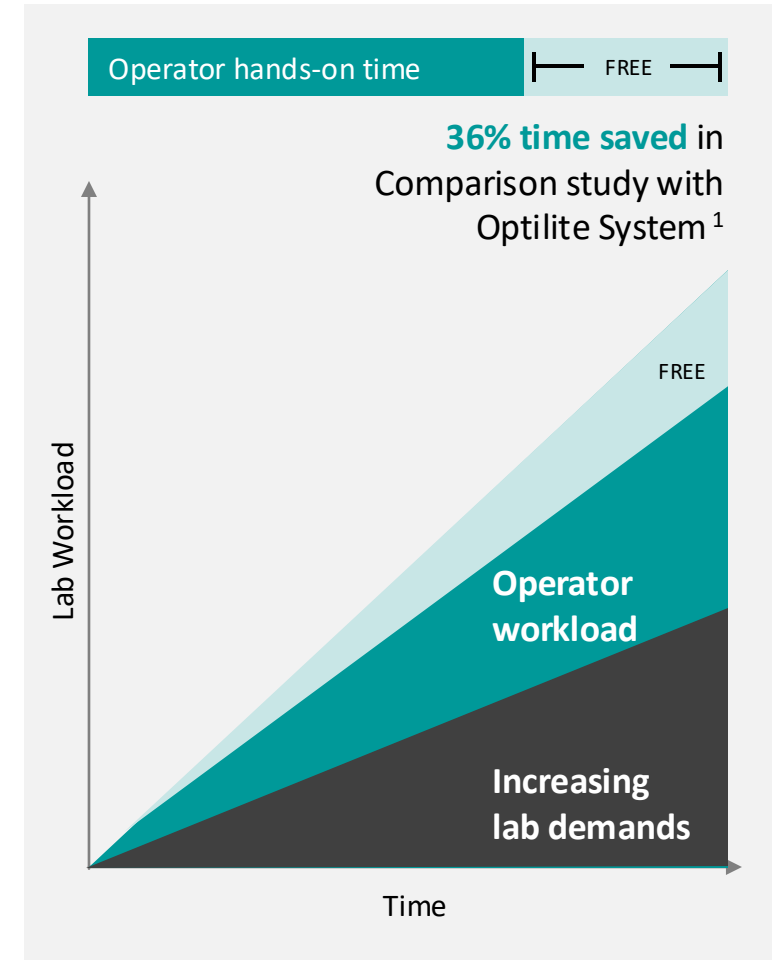
Average throughput:
130 tests/hour



Quick
sample release

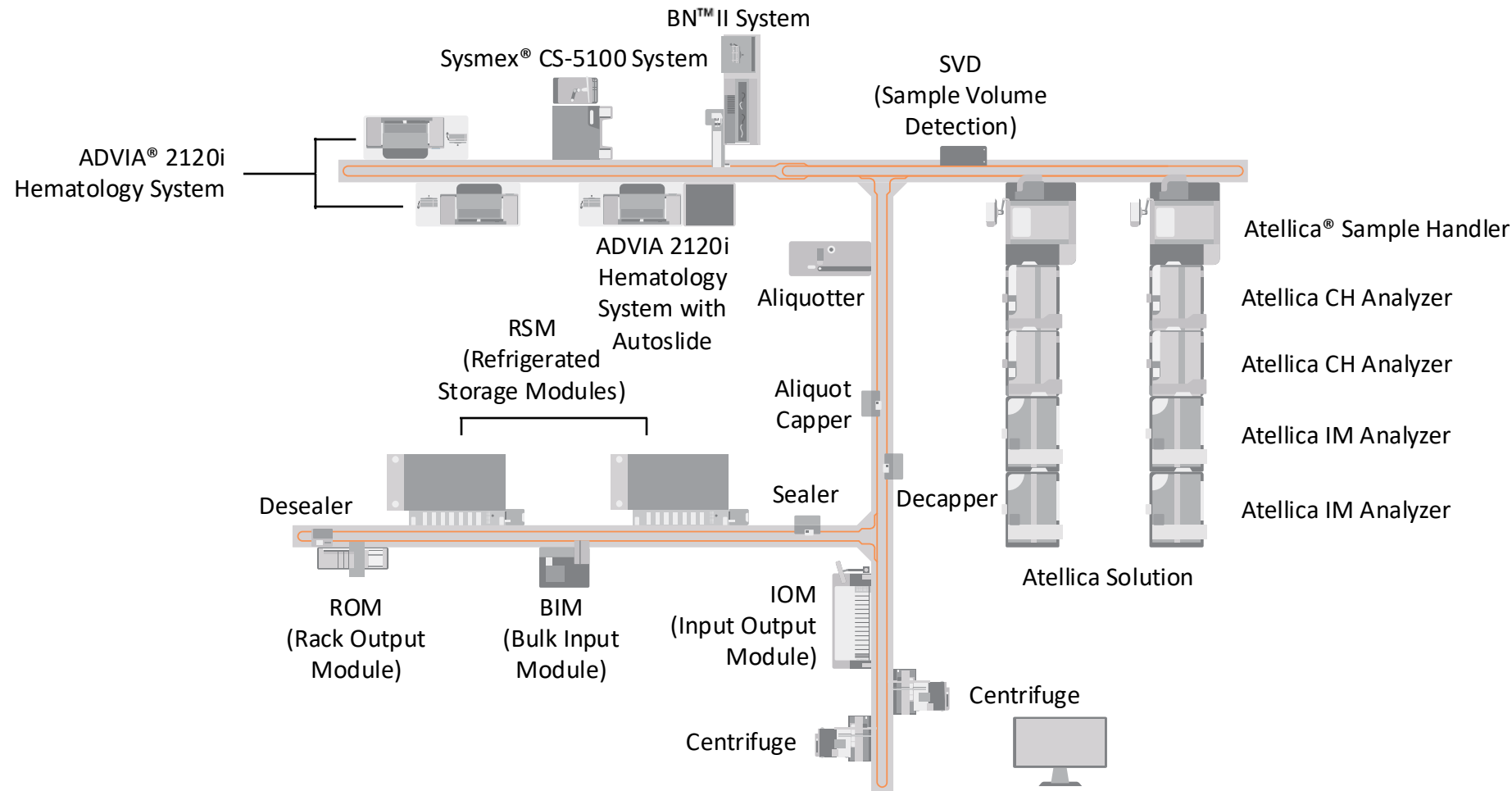


Connection to laboratory
automation



¹ LD Workflow Study BNII vs Optilite System 10 2020

BN II System connectivity to Aptio automation



Advantages of BN II System Automation Connection

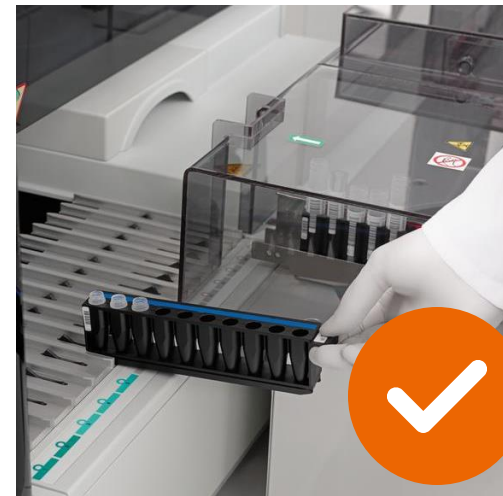
Less user intervention



Standardized sample flow



Unaffected system operation



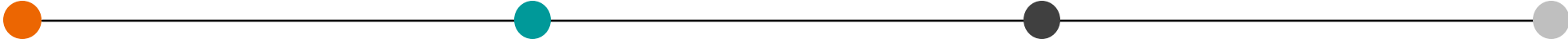
Versatility



Intuitive software



Overview of new software features



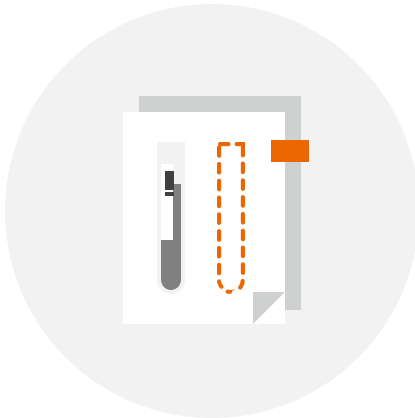
Data privacy



User management

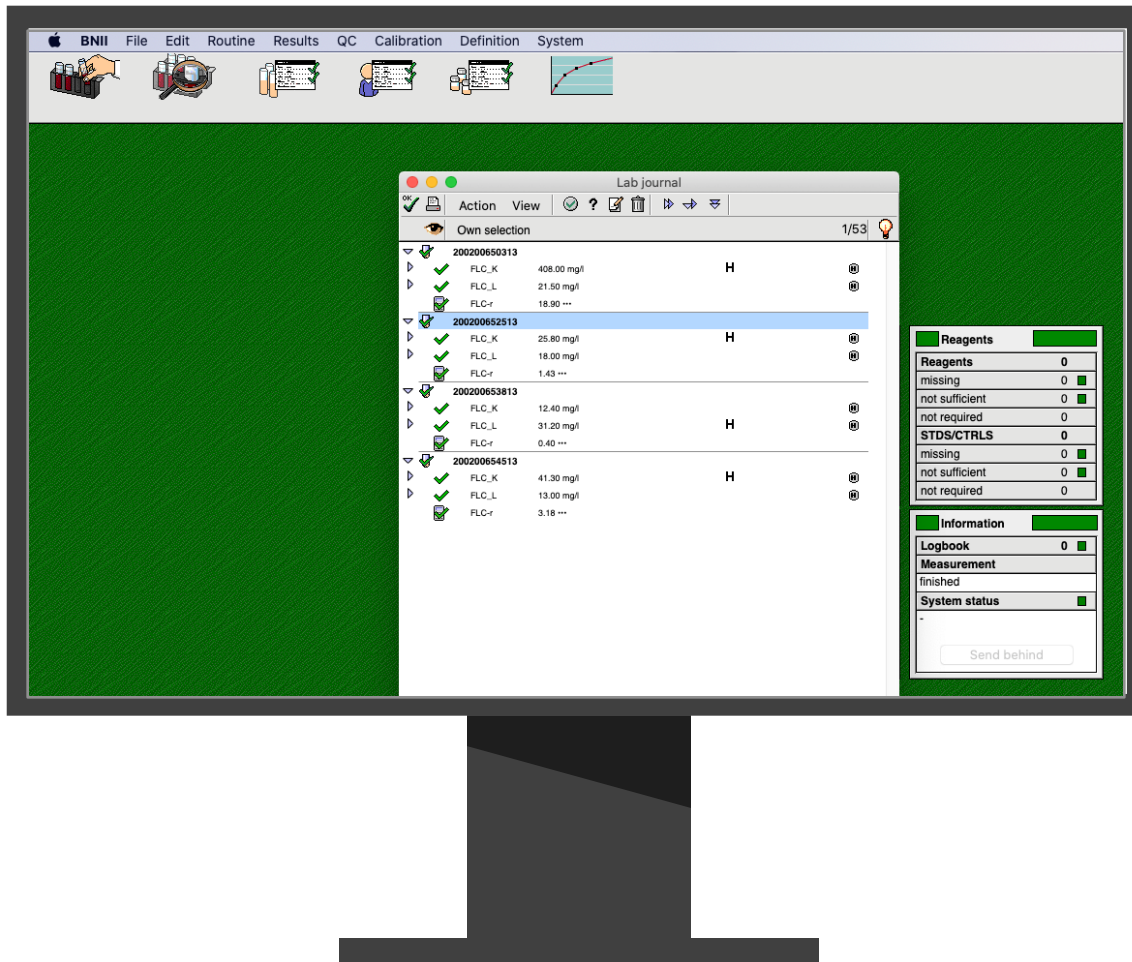
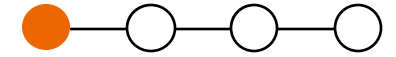


Audit trail

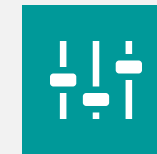


Traceability

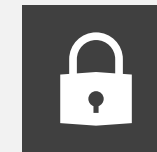
New features: Data Privacy



User management privileges ensure private user and patient data is **protected**

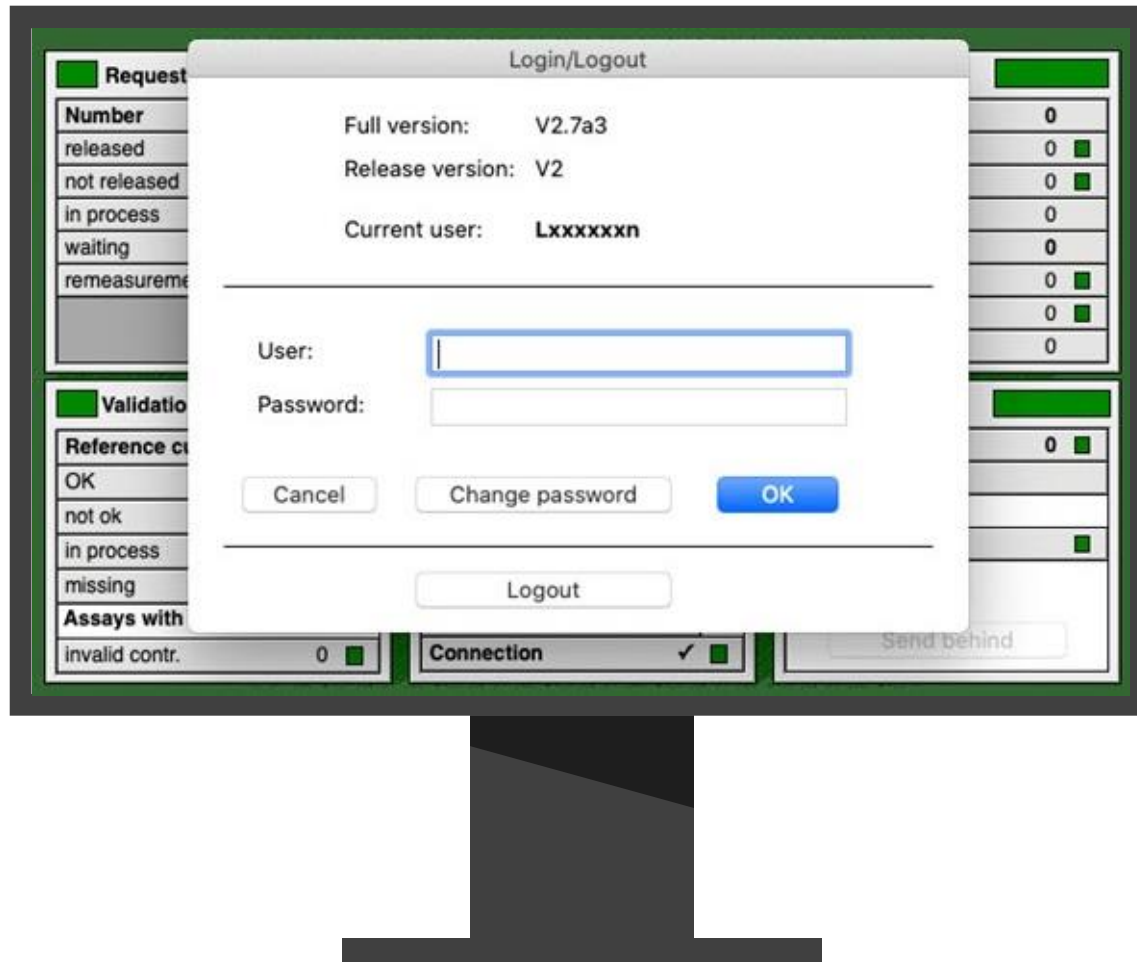


Privileges can be **configured** to suit your institution's access policies



Systems enables compliance with **data privacy regulations**, e.g., GDPR

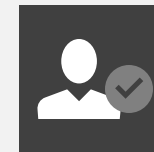
New features: User management



Individual user accounts
rather than role-based system

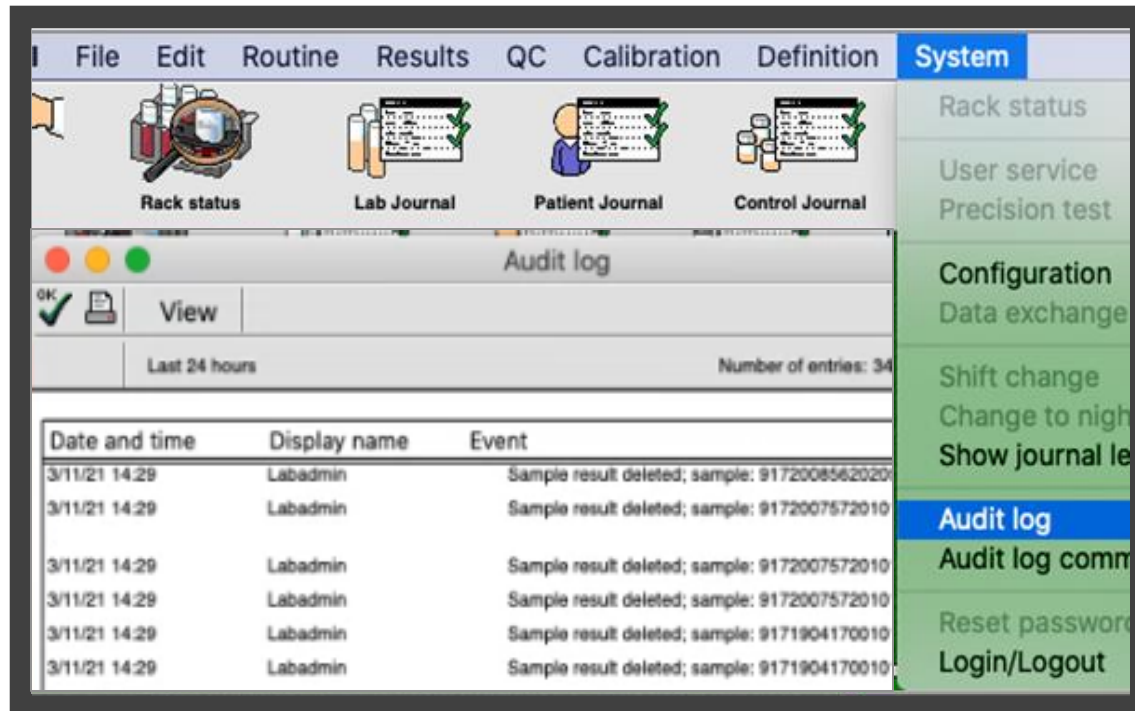
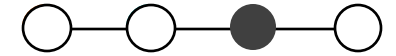


User activity **traceable**
using electronic signature



Only users with **authorized logins**
can view patient data

New features: Audit trail – FDA 21 CFR part 11



Track and comment
on user activity

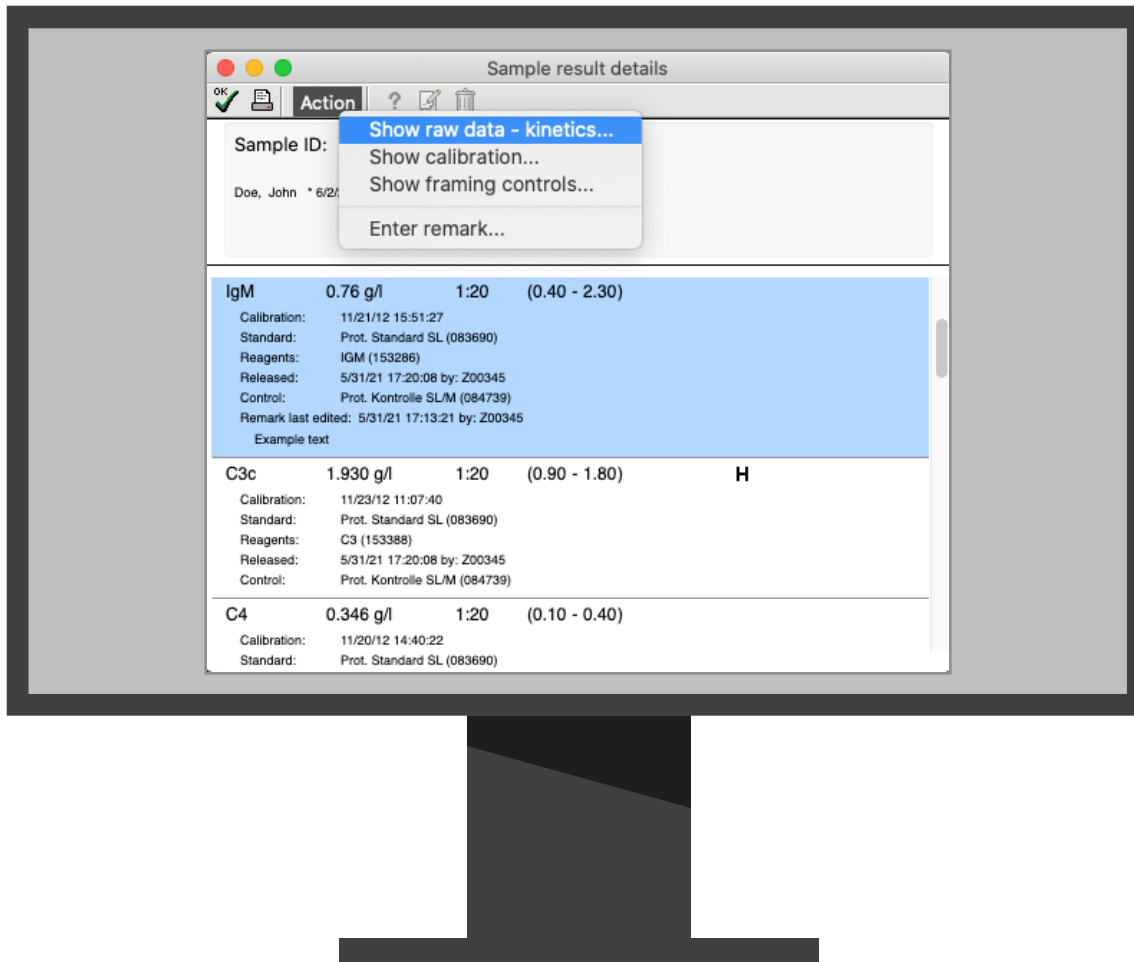
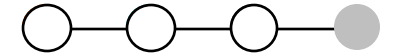


Audit trail logs storage,
commenting & printing



Provide information efficiently
when lab is being audited

New features: Traceability



Improved traceability of results, having e.g. calibrations, controls, lot numbers and release details in one spot

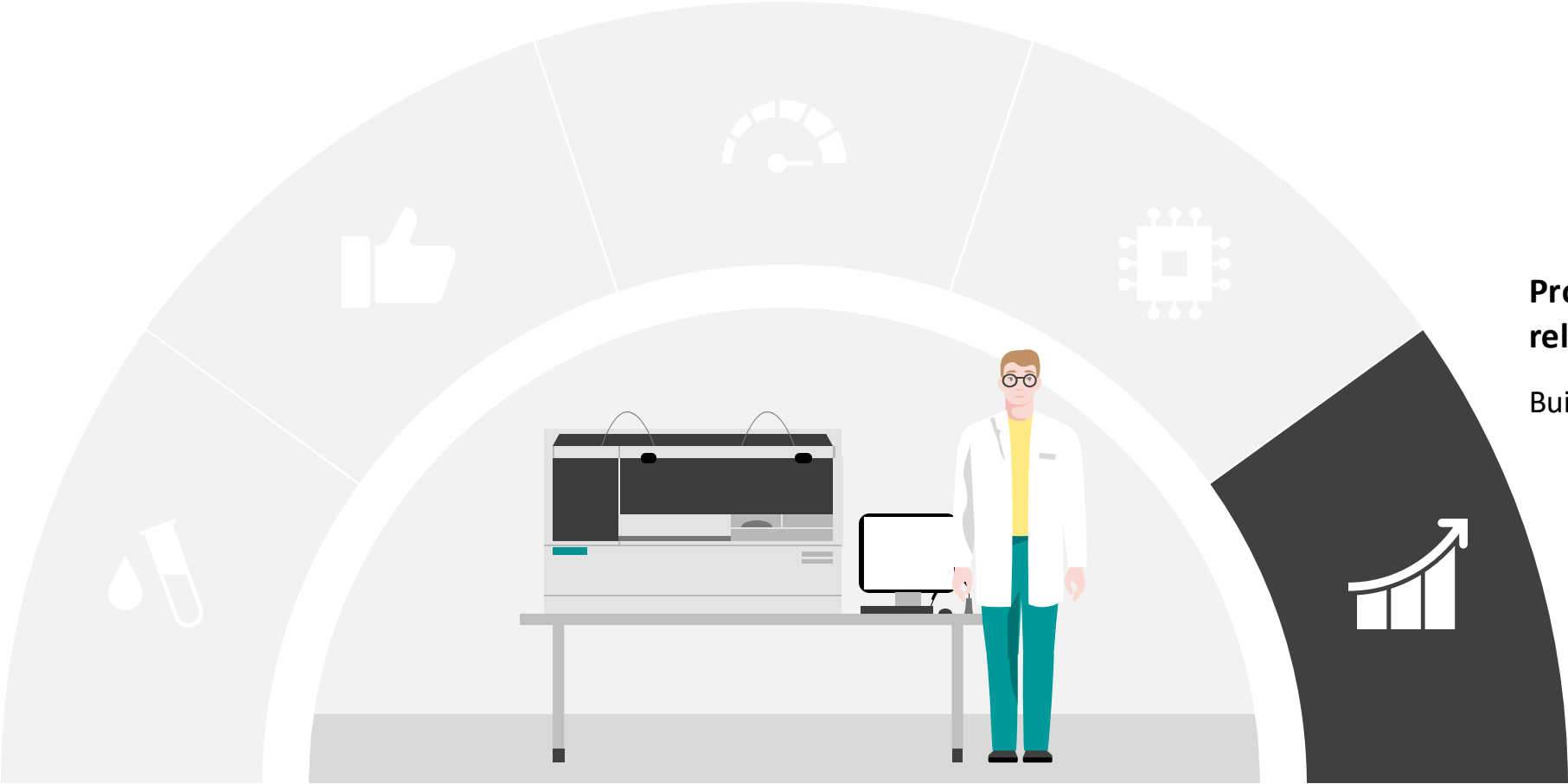


For each released result have quick access to **calibrations curves, framing controls and archived results**



Improved overall sample search **efficiency and walk-away time**

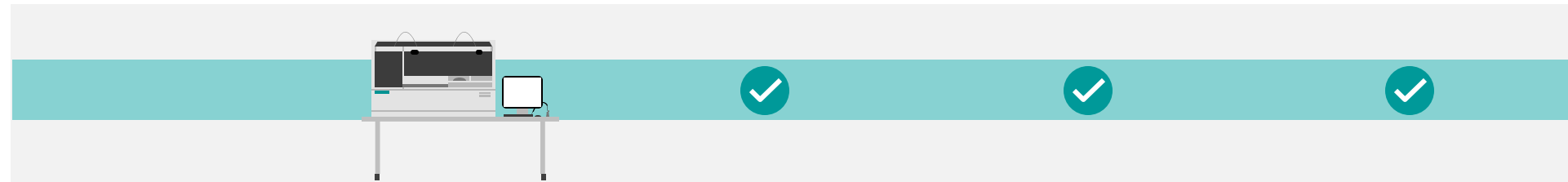
Proven reliability



Proven reliability
Built for the future

Proven instrument reliability – Built for the future

Built for the future



Excellent **service track record** with average 2-3 service visits per year.



Long term experience as an **instrument service provider**, delivers expertise and routine confidence in times of need.

Future Focus

Innovative assays



Instrument Performance & workflow excellence



Digitalization

