

expo IQA 24

MADRID
May 28th,
29th, 30th
2024



expoqa.com



Robotic Test Automation

Innovative offering from Cognizant's Quality Engineer & Assurance practice

2024

Did you know that Cobots (Collaborative Robots) are doing end-to-end testing of Smart Devices ?



Robotic Test Automation (RTA)



Niche solution for Smart device testing



24x7 (physical + digital) automation



Precise and repetitive



Evidence for compliance



These are some examples of 'Smart Devices' across various industry segments

Products, Retail & Hospitality



POS devices



Smart meters
(Energy, Gas, Water)



EV chargers



Kiosks & Terminals

Life Science & Health Care



Medical devices
(Terminals)



Health care devices



Patient monitoring
systems



Medicine & Drug

Banks, CMT, Insurance & Govt



Bank ATMs, Payment
devices



Smart watch, Smart
wearables



Homes Security
devices



Betting and Gaming
consoles

The Growth of Robotics

The Rise Of The Phygital Experience - Forbes

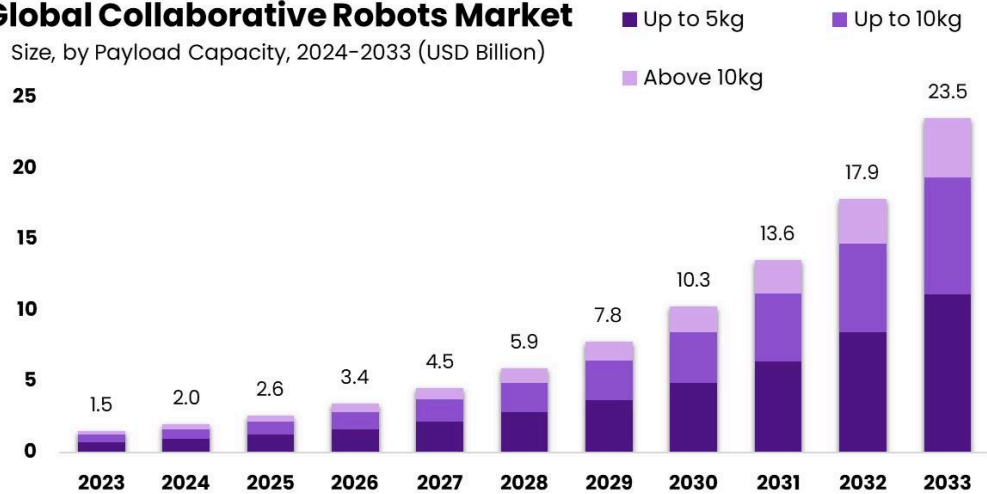


Phygital Retailing Strategy is Changing Customer Experience. The 'phygital' market is poised to exceed USD 200 trillion within the next five years.

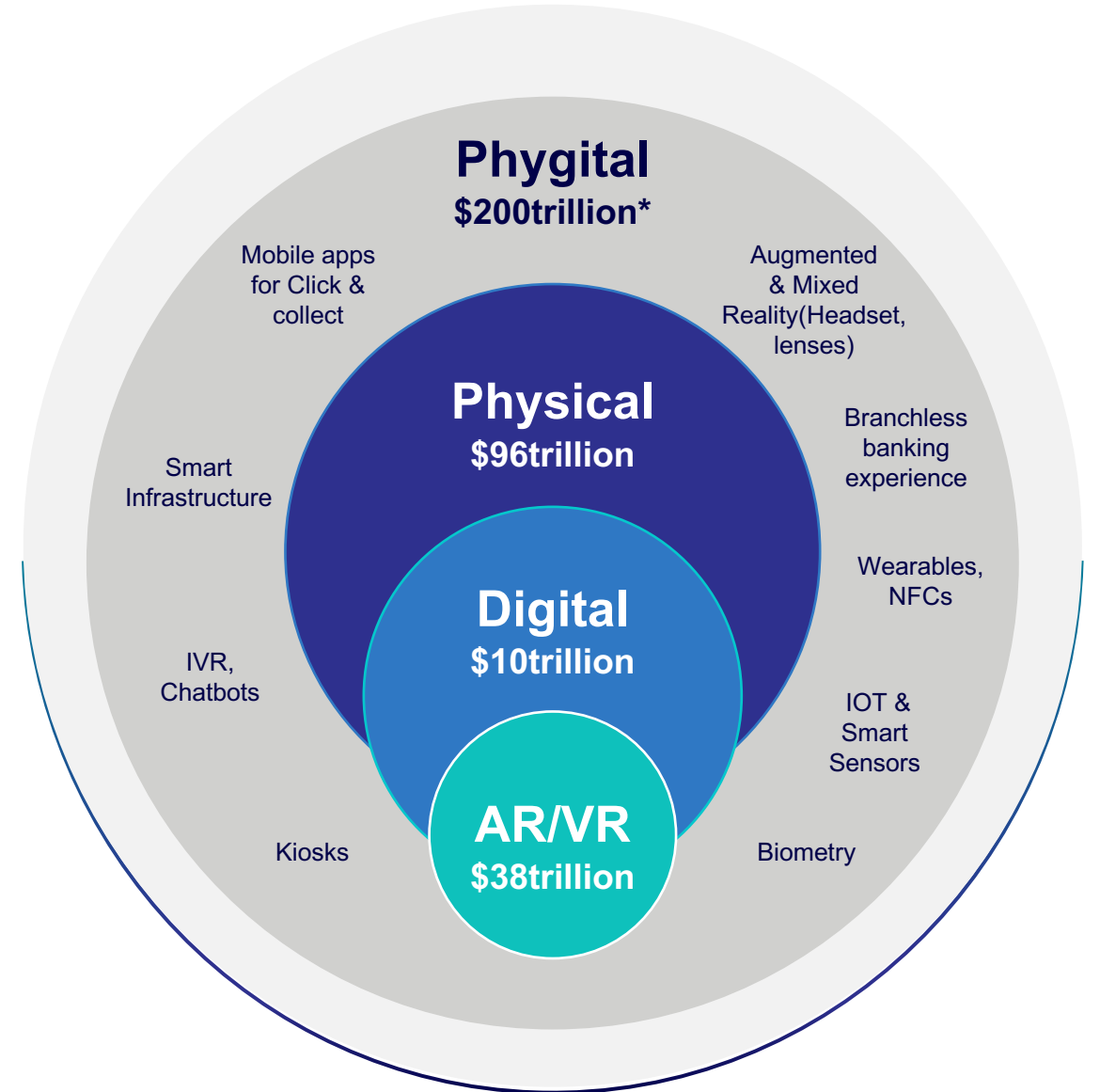


Global Collaborative Robots Market

Size, by Payload Capacity, 2024-2033 (USD Billion)

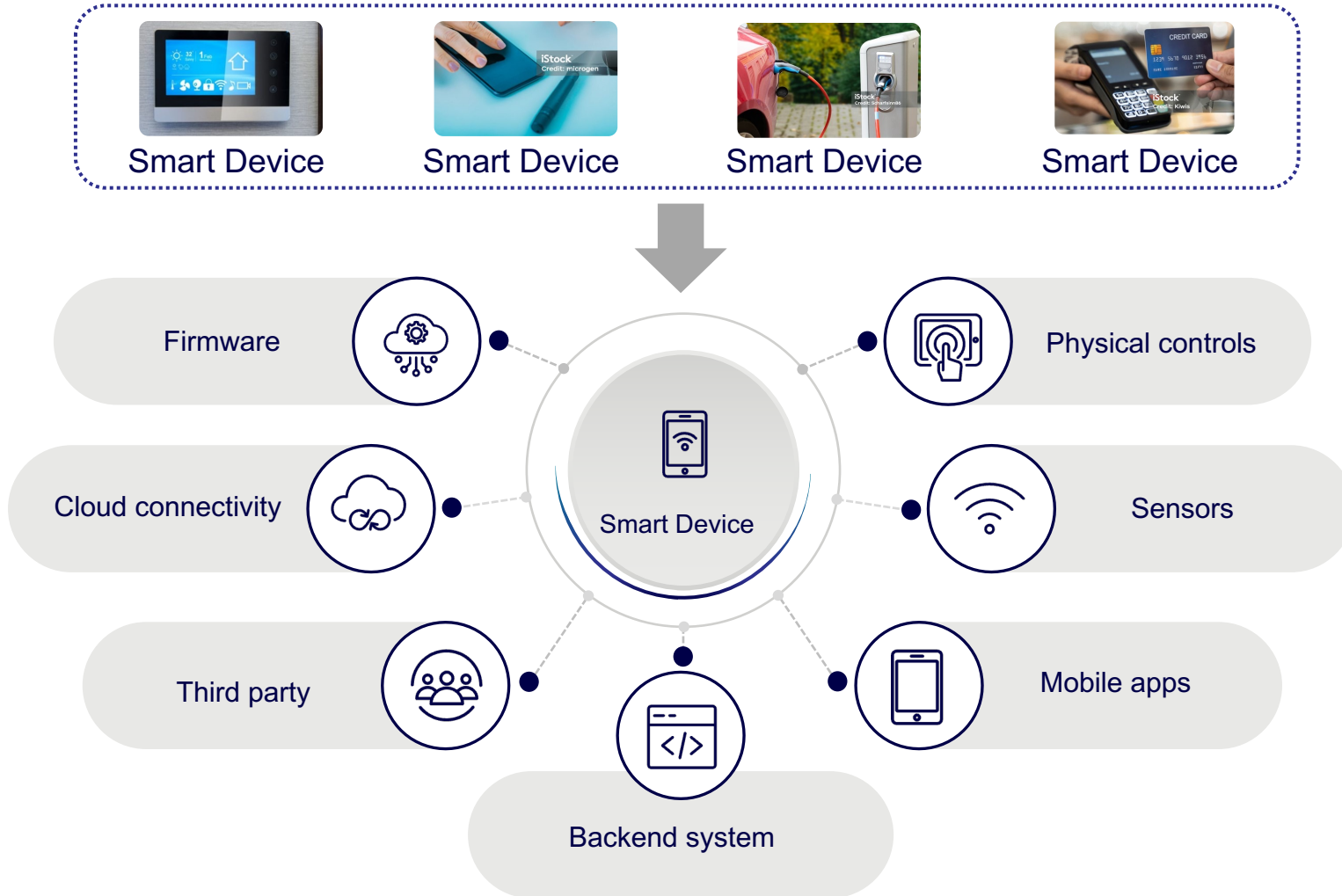


The Market will Grow At the CAGR of: **31.7%** The Forecasted Market Size for 2033 in USD: **\$23.5B** [market.us](https://www.market.us)



The challenges in testing Smart Devices can lead to costly mistakes & product launch delays

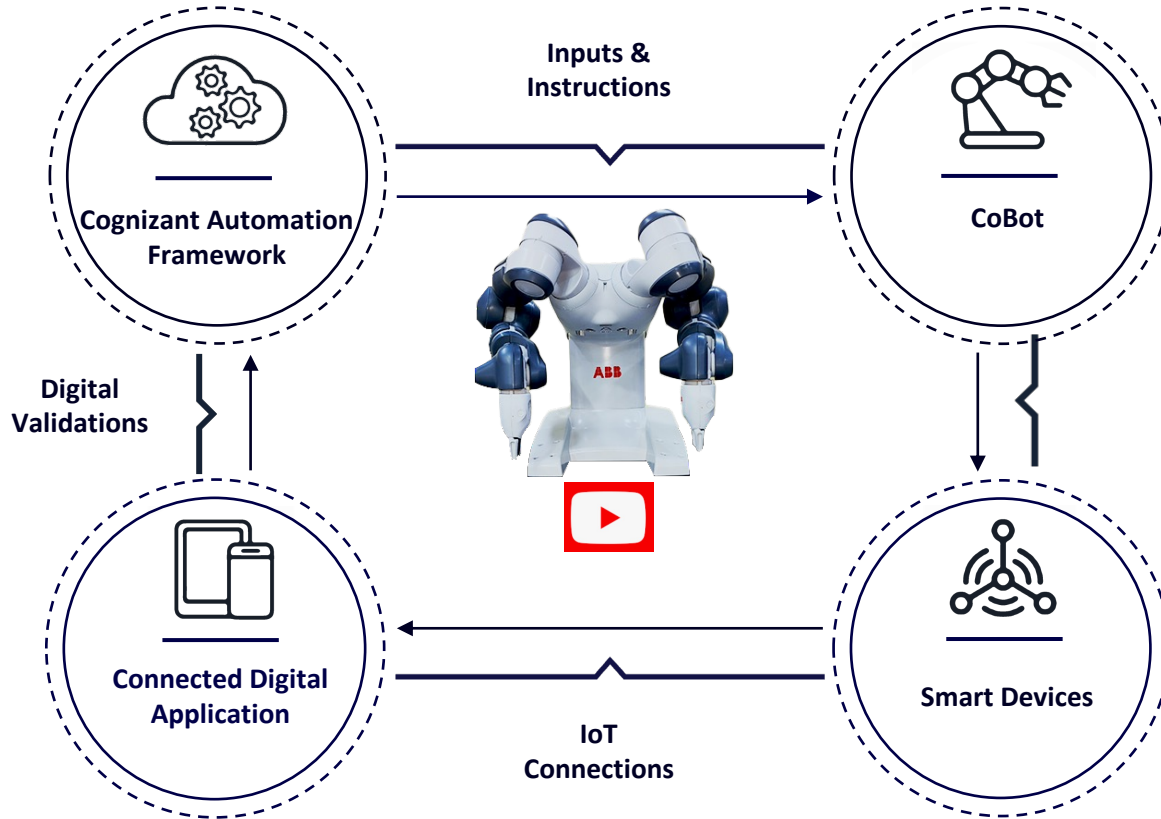
Complex ecosystem of the 'Smart Devices'



Point of failure

- Interoperability issues in the ecosystem
- Firmware updates challenges
- Third party Integration issues
- Usability issues
- App integration issues
- Limited evidences for regulatory/compliance mandates
- Security concerns

Innovative 'Robotic Test Automation' solution can solve the challenges in 'Smart device' testing



Salient Features of the solution

- ✓ Easy programming for Cobot actions and 'Phygital' (physical + Digital) validations
- ✓ Vision technology for visual validations
- ✓ API connectivity for data transfers
- ✓ Framework integration with test automation & other management tools
- ✓ Digital evidences to support regulatory/compliance mandates

Robotic Test Automation



**Continuous test automation
for devices in E2E ecosystem**



**100% repetitive & 24x7 error-free
execution without 'human factor'**



**Digital evidence of all
process steps**

Success stories & Industry specific use cases

50+
Use Cases



WOOLWORTHS

Automation of
Self-Checkout (SCO)
Machines/Terminals



Dr.Reddy's

Automation of
Pharma Diagnostic
Lab Sample Analysis



PHILIPS

Automation of
Human-Machine
Interface (HMI) terminals



British Gas

Automation of
Smart Meters for
Electric and Gas



TSB

Automation
of ATM Devices



KERING

Automation
of POS Devices



Use case - Retail



Use case - Banking



Use case – Automotive

“ The robotic testing provides a new way to solve the problem of testing, with test scenarios that cannot be automated by scripts (e.g. test with payment devices), also the 24/7 availability to reduce the time to market of the projects. - [Leading European Luxury Goods Retailer](#) ”

Our Robotics Labs are present globally



Strategic partnerships with the world leading robot manufacturer - **ABB**



For more details, write to us at:

RoboticAutomation@cognizant.com

Appendix – The Growth of Robotics

The Rise Of The Phygital Experience - Forbes

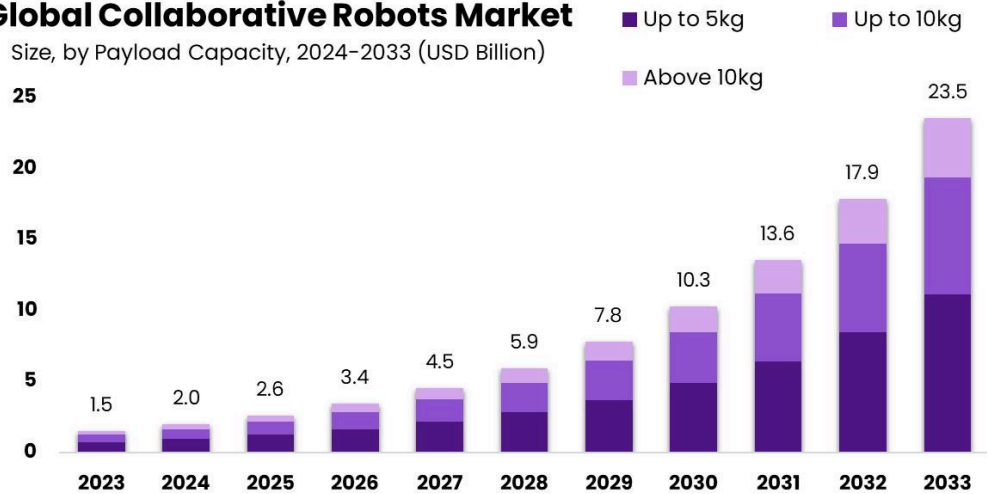


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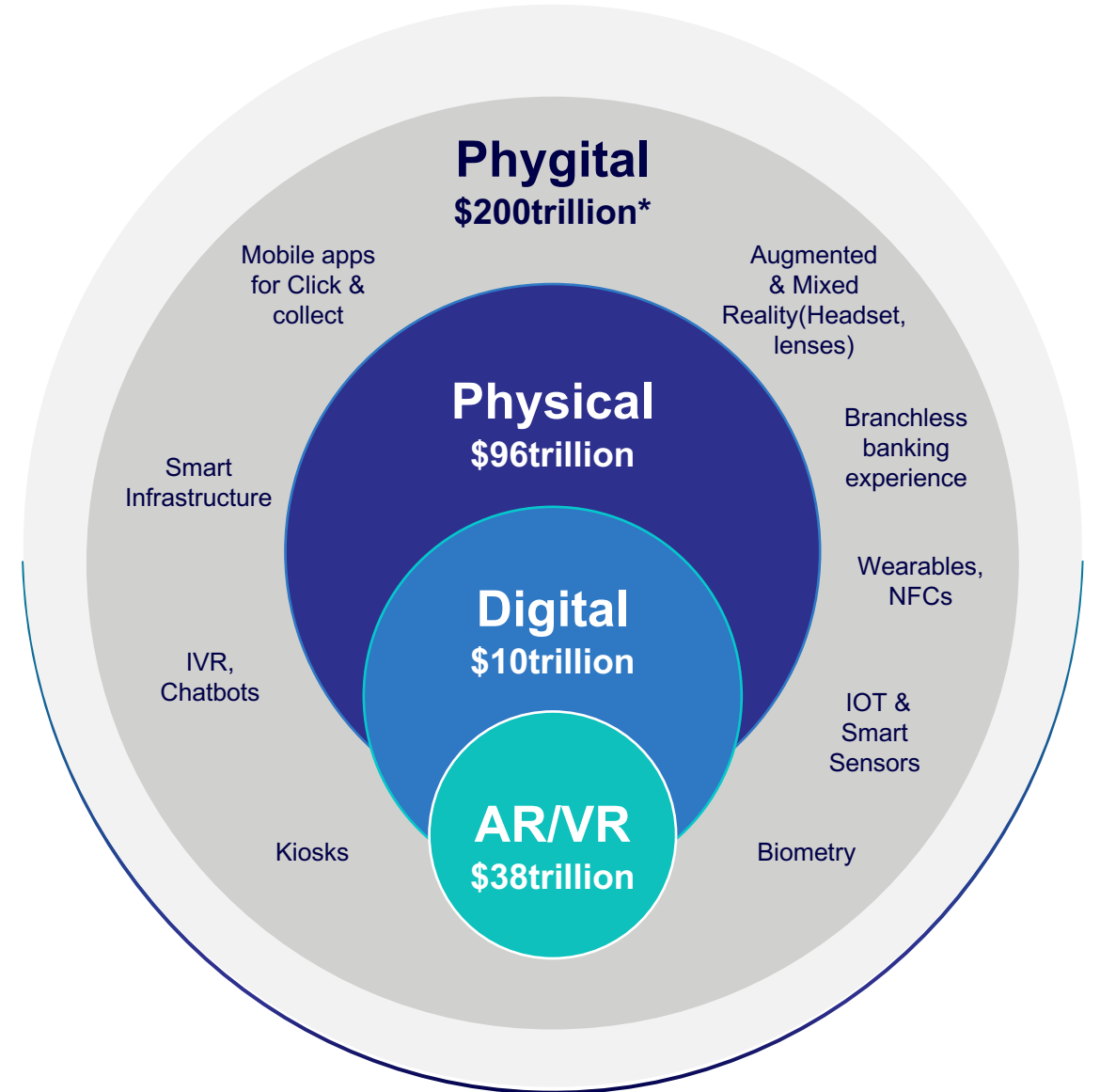


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Thank you for attending

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