

Digital as a utility



Compute
(Cloud, Edge, Quantum)

Connect
(5G, LEO, mesh networks)

Sense
(IoT, 4IR)

Data
(Handling info-rich next-gen types: Real-time, Visual, Language, Vital Signs)

Human-centred innovations



Real-time, adaptive, immersive, intuitive, AI-enabled, connected experience

Sustainable work-live-learn-play



Open inclusive innovation

Trust
(cyber, privacy, data)

Connected spaces, smart cities

The 21st century operating environment

Technologies that bring transformation to where we work, live, learn and play

Augmented workforce

- Enhanced client¹ access, trust, satisfaction
- All-weather ruggedized hyper connectedness
- Instrumented Worker: safe, vital signs monitored, next-gen data handling
- Augmented workforce²

Workforce of the Future:
enabled, untethered

Flexible workspaces

- Visitor services, public messaging, dynamic displays
- Real-time security: ID, command centre, location tracing
- Fluid layout workstations, flipped collaboration, distributed access
- Smart services³
- Hybrid work settings: on-the-move, in vehicle, at home, at workplace

Connected Spaces: flexibility drives transformation, sustainability opportunities

Real-time resource orchestration

- SmartThings Energy – empowering consumers, district-level energy optimization
- Smart secure Signage
- City data platform & digital twin (real-time, video analytics, IoT, AI) ex. security risk audit and planning

Smart Cities: aggregated quality improvement, organic and adaptive

Notes

1. Citizen, student, patient, etc
2. Real-time AR/VR inspection, support, collaboration
3. HVAC, air cleaning, pantry

The 21st century operating environment

Mobile-dividend enables the leapfrog

5G



Pen & Paper Digitisation



Digital ID



PC Replacement



Mobile Payments



Digital Wallet



Mobile Scanning



Safe Distancing



Walkie Talkie



Tech for meaningful impact in the 21st century

► Stage 1: mobile-first leapfrog

- User-led possibilities; Modernization; Workflow transformation
- Secured by [KNOX](#)



Me@Walmart: new ways to work for in-person first-line workers

“an exclusive destination filled with new features to simplify daily tasks, serve our customers and plan for life outside of work.”

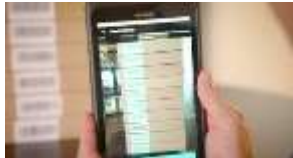
If you want to create a best-in-class experience, an organization must design cloud-native, mobile-first applications and provide better devices to run these new applications



Mobile clock-in, team schedules



Check and manage inventory



Camera for barcode scanning



Push-to-talk with team members

- For CIOs: scale to 740,000 associates with Security for Work Use, Privacy for Personal Use
- Extension scope: telemedicine, drive up clinics, touchless POS, and curbside pickup

► Stage 2: provide services anywhere

- “Insight on the inside” with [SmartThings](#)
- Connected Experience (at home, on the move, in vehicle, etc)



Smart Village ('21.12 move in)

Gov't sponsored US\$1.8B 56-home “data in lieu of rent” three-year Living Lab research program: health care, robotics, smart farming, environmental and safety tech

Samsung: Connected Experience

- Data collection: Intuitive & non-intrusive digital devices and appliances that collect data
- User Convenience: Bixby voice recognition
- User Control: SmartThings

Asian Development Bank Partnership with Samsung Electronics

Edu Dev't thru' DTX
ADB x Samsung MOU 12 Oct 2022

Capacity
Building

Tech
Vocational
Education &
Training

Gov't
Digital
Dev't
Projects

Mobile-First
Centre of
Excellence
(MF CE)

Entrepre-
neurship
& Start-
ups

Start-ups
for tech
support,
DTX

Outcome-focused Skills: Mobile-first Centres of Excellence

► Context: Gov't digital development

- Tap **mobile dividend**: citizens, micro SMBs, businesses, employees use mobile!
- Shift mindset: from infrastructure-driven DTX to **compute in context**
- Use **prototypes** to explore: demand-led, workflow improvement not capacity-led
- Provide **trusted focal point**: tertiary institutions are well-respected resource
- **Unlock capacity**: focus training on outcomes such as jobs, entrepreneurship, innovation
- **Build local IT industry**: global tech companies that support local partners

► Activities of MF CE

Support for Gov't (needs discovery workshops, map and transform work flow, build the prototypes, iterate)

DTx impact reporting (framework, benchmark metrics, case studies, reports, sustainability)

Capacity building (Gov't officials, systems integrators, start-ups)

Collaboration platform for mobile technology firms

Thought leadership, speaking and workshops