WOG Pavilion 2021 Content Summary

The Ecosystem Concept

Singapore aspires to be a global business, innovation, and talent hub for advanced manufacturing. The ambition of the city is realised through a comprehensive network that connects everything and everyone in a powerful, driven, and energetic ecosystem, including people, processes, data, analytics, and information.

The WOG Pavilion, which has a floor area of 225 square meters, aims to showcase Singapore's Manufacturing 2030 vision through a visual framework that represents the hyperconnected ecosystem.

The Pavilion consists of four zones to showcase Singapore's capabilities in attracting frontier investments, grooming enterprises and talent, seizing new opportunities with Industry 4.0, and inspiring confidence among potential investors through innovation and tech adoption. Finally, Singapore is a reliable launchpad for greater collaboration in the region and serves as a catalyst to help companies in scaling their operations internationally.

To enhance the concept of sustainability, green elements will be incorporated in the booth design. Visitors will leave the booth with resources for their I4.0 transformation journey and new insights about Singapore being a vital and resilient node in advanced manufacturing and global supply chain.

Each zone could begin with a quote from thought leaders, Ministers or CEOs about Industry 4.0, sustainability and greater collaboration.

Content Summary

	Key messages	**Content Points**	**Remarks**
Zone 1: The Future is Now	Singapore has embraced Industry 4.0 to meet the demands of a shifting world. The pandemic has put manufacturers around the world to the test. Singapore continues to strengthen its position as a global AM hub in the post-covid-19 world, with an ecosystem that fosters innovation, deepen value creation, and helps to build a resilient supply chain. Singapore is well-prepared for what lies ahead as we have always been investing in our people and infrastructure over the decades.	- **[EDB/MTI]** Overview of the Singapore Manufacturing 2030 vision - How Singapore has been preparing for the post-covid-19 world and to build up a resilient supply chain - A Post-covid-19 Singapore Inc (Facts about companies continue to invest in Singapore because of the standards (SIRI), talent and infrastructure (JID) in place despite the pandemic)	

Zone 2: Our People at The Heart of Industry 4.0	Despite the onslaught of automation and robotics, the workforce ultimately remains the heart of the advanced manufacturing industry. The Singapore government has partnered with companies to identify new skills required across manufacturing job archetypes, and launched nationwide training programmes and leveraged strong tripartite partnerships with trade associations and the private sector to help its workers, whether they are mid-career switchers or fresh graduates, in order to stay competitive and relevant, and business owners have access to I4.0-ready supply of talent.	- **[SSG]** We are home to brilliant minds. Singapore has an ecosystem to groom and develop local talent. There are series of programmes to help its people reskill and upskill. - Showcase opportunities in the manufacturing industry (supported with testimonials from workers/student-trainees) and highlight in-demand skills (Jobs Skills Insights (JSI) - SkillsFuture Singapore QueenBees - National Centre for Workplace Learning (NACE) - **[JTC/ESG]** Tripartite partnerships with trade associations, institute of higher learning and private sector to ensure business owners have access to I4.0-ready talent	

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Zone 3: Home to Factories of the Future	Singapore is a nexus for innovation and R&D where companies across industries and the value chain can learn, co-develop and test-bed advanced manufacturing technologies to stay competitive such as expanding their business offerings, and mitigate short-term challenges.	- **[JTC]** Our transformative infrastructure at Jurong Innovation District makes our city a quality home to factories of the future. Jurong Innovation District houses a vibrant ecosystem of R&D centres, technology partners, factories of the future and training and education institutes. - **[A*Star]** We are open to new ideas and craft innovations to move companies and industries forward. The Model Factory @ARTC help businesses identify risk, co-develop and test ideas. - **[A*Star-JTC]** We are committed to reduce carbon and waste footprint, therefore, sustainable technologies like The Green Compass and Supply Chain Digital Twin are developed to achieve a sustainable manufacturing value chain in the F&B/FMCG industry - **[ESG]** We can help companies to kickstart their Industry 4.0 transformation journey. Take for example these companies in the early stages of their I4.0 adoption. - Coway Engineering - Onn Wah Tech	**ESG suggested for their content I4.0 Starters and I4.0Leaders to be shown in 1 or 2 large digital panels for lab crawl-style content**

		• Adoption of I4.0 standards: OPC UA, ISA 95 • Adopted SG solution (Arcstone) - **[ESG]** We support companies who have started their I4.0 adoption to foster operational excellence through sustained efforts. Here's some companies who've got it mapped out. 1). Fong's Engineering • Adoption of medical standards 2). Premplas - **[ESG]** We invest in local start-ups and create new opportunities overseas through programmes such as co-innovation or open innovation calls. It allows companies to collaborate with bigger industry players and work on real industry problems and test-bed their solutions with IHLs or LLEs. • WaveScan • Deals from Co-innovation programmes (TBA)	

Zone 4: Together Everyone Achieves More	Singapore is a reliable launchpad for greater collaboration in the region and serves as a catalyst to help companies in scaling their operations internationally.	- **[ESG]** Beyond helping your business succeed in Singapore, we help you tap into opportunities across Southeast Asia (SEA). Companies can explore new growth opportunities and address the demand for i4.0 technologies in international markets (esp SEA) through collaborations with industry partners (such as government organisations, industrial parks and trade associations) and other local companies. Proof points: • GVT Manufacturing (standards adoption) • Forefront Medical (standards adoption) • Akribis Systems • LionsBot • ISDN - **[EDB]** We empower the manufacturing community with trend analysis and identify new opportunities to breakthrough. SIRI: The Smart Industry Readiness Index (SIRI). - **[EDB]** Singapore is your global partner for success. Featuring case studies of	**ESG proposes having an interactive map or graphic with map pins to showcase SG manufacturers and their regional operations, as well as SG offices/ ESG overseas centres where companies can seek support from. Users can click into the specific regions to find out more about opportunities, govt support availalable, successful case stories.**

		major investors who have set up their headquarters in Singapore.	