

JULY/AUGUST 2025

# ARCHIBUILD

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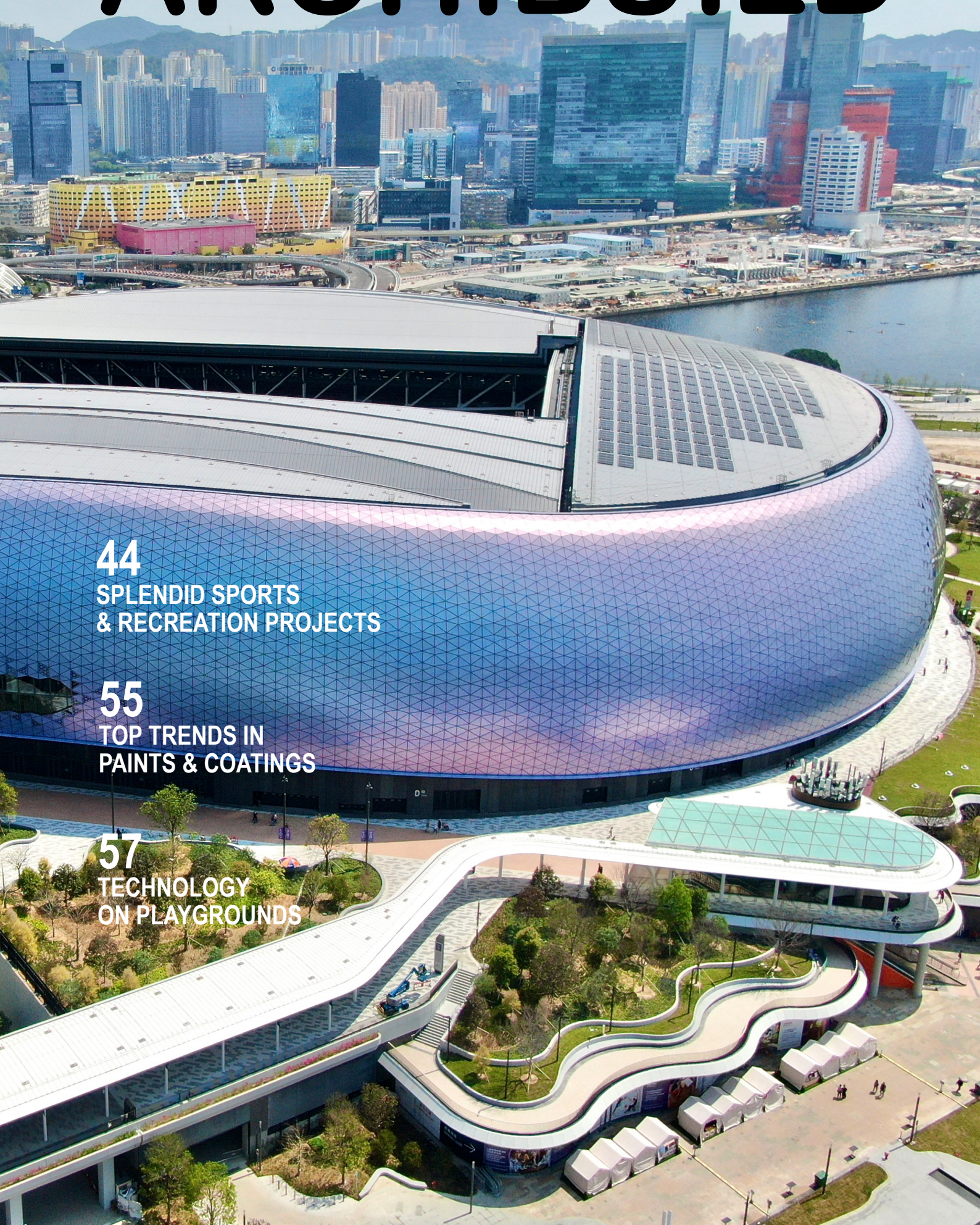
SPLENDID SPORTS  
& RECREATION PROJECTS

55

TOP TRENDS IN  
PAINTS & COATINGS

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TECHNOLOGY  
ON PLAYGROUNDS







**Samuel Derwent Tsang, Director of TAU Architects/Exploraplayground comments:**

Technology is transforming how children play in playgrounds by blending physical activity with interactive, immersive experiences. At ExploraPlay, we've seen firsthand how integrating technology into playground design can enhance creativity, learning, and engagement while still encouraging kids to move, explore, and connect.

One of the biggest changes is the rise of interactive play equipment – structures embedded with sensors, lights, and sound that respond to children's movements. These systems create dynamic challenges and feedback loops that keep kids engaged and encourage them to be more active. Whether it's a game that lights up different zones to chase or a musical panel that rewards coordination and rhythm, tech-enabled features

help make play more stimulating and inclusive. We incorporated these ideas in Twist & Turns a space themed playground with a giant rocket, moonlander where several sensors are integrated in the play structures.

Augmented Reality (AR) is another emerging tool, allowing children to blend the physical and digital worlds. Using mobile devices or AR glasses, kids can interact with virtual creatures, treasure hunts, or storytelling adventures layered over real playgrounds. These experiences spark imagination while promoting movement and problem-solving.

Moreover, data-driven design is improving safety and accessibility. Smart playgrounds can track usage patterns and monitor equipment in real-time, allowing for better maintenance and more inclusive play opportunities for children of all abilities.

Despite these innovations, the core of play remains unchanged: fun, freedom, and social interaction. At ExploraPlay, we believe technology should enhance rather than replace traditional play. Our goal is to create environments where children can climb, slide, swing – and now, also explore digital layers that challenge their minds and bodies.

In the end, technology is not about keeping kids glued to screens but about enriching outdoor play with new dimensions of interaction, learning, and joy. The future of play is both physical and digital –and it's more exciting than ever.



CIBIS-TWIST & TURNS 45 is a playground located in Cibis Park , Jakarta Indonesia. This playground is interactive and ExploraPlay worked with a local company call Digita Nativ.