SPEAKER

CAROLINA FONG GUZZY

Talks | Technology

THE BIG 5

Digital Transformation Experience:

- Common Data Environment (CDE)
- Document Management Systems
- Field Management
- BIM
- ERP

Carolina is Accienta's Co-Founder / Digital Engineering Manager.

Carolina holds a Bachelor of Science in Civil Engineering from Monterrey Tech in Mexico and a Master of Project Management from Northwestern University in Chicago, Illinois.

Currently, Carolina provides professional services for Digital Transformation and Autodesk Construction Cloud.
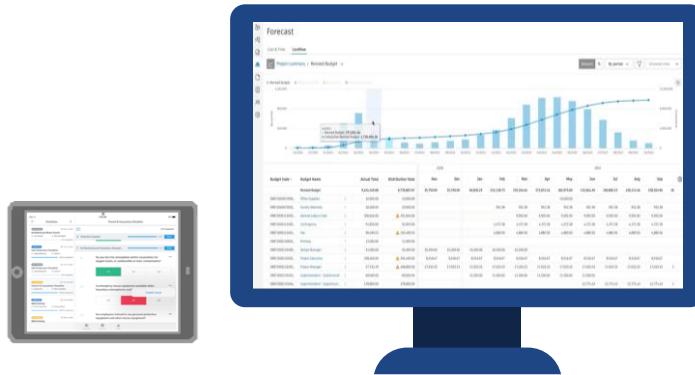
Organized by

dmg::events

#THEBIG5EXHIBITION
www.thebig5.ae

DIGITAL TRANSFORMATION JOURNEY

A MINDSET SHIFT

- People, Processes and Platforms
- Benefits of embracing technology and cloud solutions in construction operations
- Success Stories in the construction industry

WHY DIGITAL TRANSFORMATION?

CONSTRUCTION INDUSTRY

Current State

- Design and construction teams often struggle to find a seamless way to identify issues and circulate to appropriate stakeholders.

- **62%** of construction professionals transfer field data manually or via spreadsheets

- **30%** of data created during design and construction is lost by project closeout
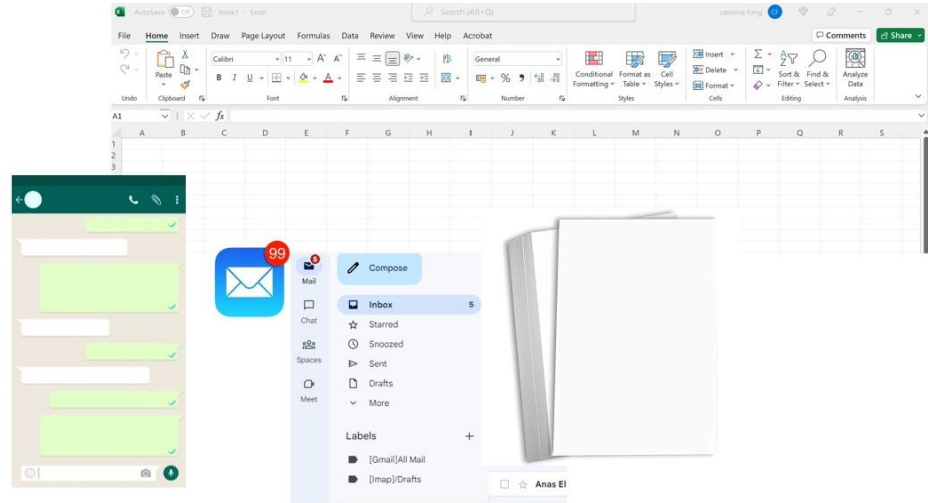
#THEBIG5EXHIBITION
www.thebig5.ae

Organized by

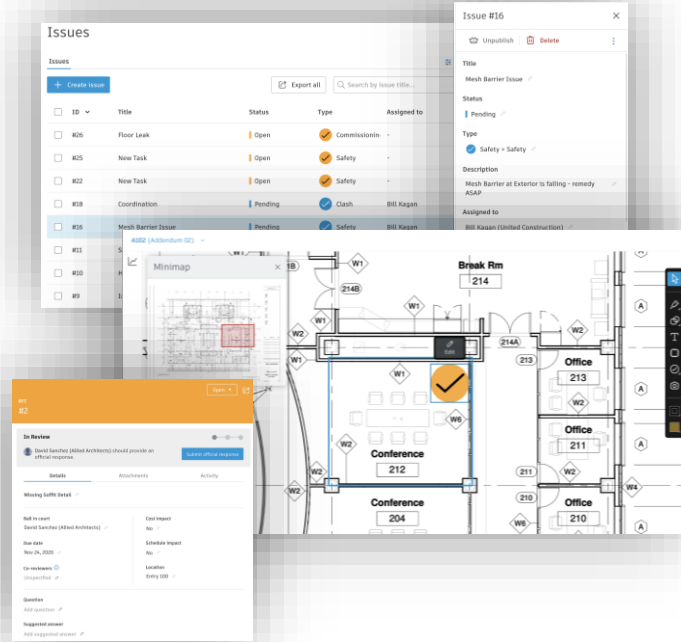**dmg::events**

WHY DIGITAL TRANSFORMATION?

CONSTRUCTION INDUSTRY

Future State

- One single source of truth for project information and collaboration

- Transfer of field data via cloud, data is live at all times and can be accessed according to permission rights

- Data continues to be captured during all project phases and handed over to key stakeholders

IMPLEMENTATION FRAMEWORK

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

- **Planning, Kick Off, Discovery**
  - Organization Specific needs
  - Workflow definition and benefits
  - Organization structure.

- **Project Setup and Configurations**
  - Folder Structure
  - Upload and Publish Documents
  - Add Members & Apply Permissions

- Training + Go-live

- Follow up and Support

STEP 1

STEP 2

STEP 3

STEP 4

#THEBIG5EXHIBITION

www.thebig5.ae

DIGITAL TRANSFORMATION JOURNEY

PEOPLE, PROCESSES AND TECHNOLOGY

People
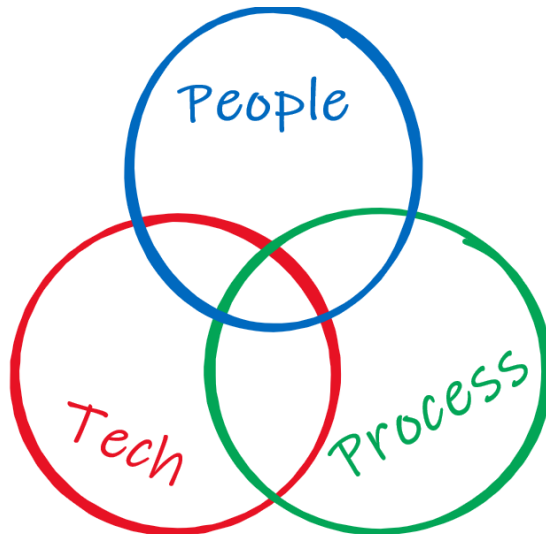
Tech

Process

DISCOVER:

- Pain Points – Quick gains
- Key Information
- Workflows
- Key Stakeholders/Roles
- As-Is to To-Be

Organized by

DIGITAL TRANSFORMATION JOURNEY

PEOPLE, PROCESSES AND TECHNOLOGY

A digital transformation is a journey and it needs a joint effort to be successful.

Executive Sponsorship

+

Key Admins

+

Star Users

MINDSET SHIFT

External consultants will come and do the implementation. ❌

VS

We will all work as a team in addressing our key pain points. ✅

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

A digital transformation journey is a disruption.

Therefore, soft skills are crucial to achieve successful results.

What are soft skills?

Commonly defined as non-technical skills that enable someone to interact effectively and harmoniously with others, are vital to organizations and can impact culture, mindsets, leadership, attitudes and behaviors.

Source:
McKinsey&Company

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

SOFT SKILLS

Interpersonal and character traits

VS

HARD SKILLS

Specific set of knowledge and quantifiable abilities.

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS
DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Why are Soft Skills important?

Reskilling at scale is a concern and priority for 80 percent of C-suite executives worldwide, according to a McKinsey survey. Reskilling significant portions of the workforce within the next 5-10 years will be required.

"As automation and artificial intelligence dramatically change the nature of work, employees must fine tune the social and emotional abilities machines cannot master. To encourage this behavior, employers must adjust the ways they assess, educate, train and reward their workforce on soft skills such as collaboration, communication and critical thinking."

Source:
McKinsey&Company

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS
DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Why are Soft Skills important?

Soft skill-intensive occupations will account for two-thirds of all jobs by 2030.

Soft skills are also referred to as employability skills, enterprise skills and they are transferable between industries and occupations. They include things like communication, teamwork, and problem solving, as well as emotional judgement, professional ethics and global citizenship.

Source:
Deloitte: Soft Skills for Business Success

Organized by
dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Soft Skills Categories

1. Advanced communication and negotiation skills
2. Interpersonal skills and empathy
3. Leadership and management skills
4. Entrepreneurship and initiative-taking
5. Adaptability and continuous learning skills
6. Teaching and training skills

Source:
McKinsey&Company

Organized by

dmg::events

ORGANIZATIONAL CULTURE

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

TOP – DOWN STRUCTURE

The "Boss"/ Management asks for something and all the levels of the organization need to comply, no questions asked.

VS

COLLABORATIVE ENVIRONMENT

All team members are equally heard and suggestions for improvement are implemented at all operational levels.

- Less commitment or engagement

+ Positive reinforcement = more engagement

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Aspire to lead in industry 4.0?

The Fourth Industrial Revolution may require organizations not just to adopt advanced technologies, but also to develop ethical, inclusive leaders.

The proliferation of Industry 4.0 technologies also demands that organizations rethink the roles that humans and machines play. Research suggests that while millennial workers understand this, many business leaders may not yet. According to Deloitte's 2019 Industry 4.0 readiness study, two-thirds of CXOs favor stronger technical capabilities (STEM skills) over soft skills such as sociability and critical thinking (33 percent)—even though they are working to develop both areas.

Source:
Deloitte: Aspire to lead in industry 4.0?

Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Effective reskilling requires blended learning journeys that mix **traditional learning**, including training, digital courses and job aids, with **nontraditional methods**, such as **peer coaching**.

One retail giant has distributed over 17,000 virtual reality headsets that immerse employees in unfamiliar situations, such as their first Black Friday sales day, and is training them in new tech, soft skills and compliance.

Employers providing soft skills training report positive impacts on their workforce, including higher productivity and improved results.

Source:
McKinsey&Company
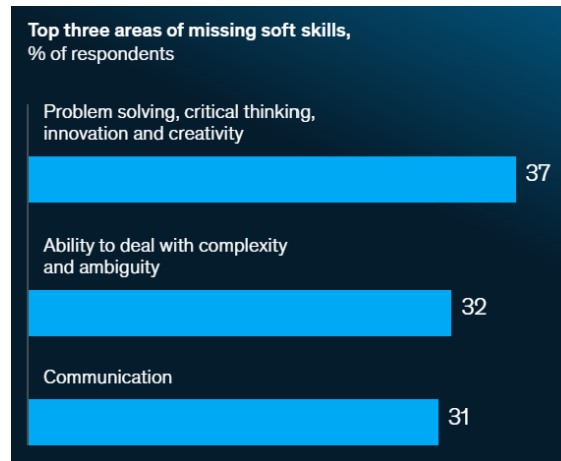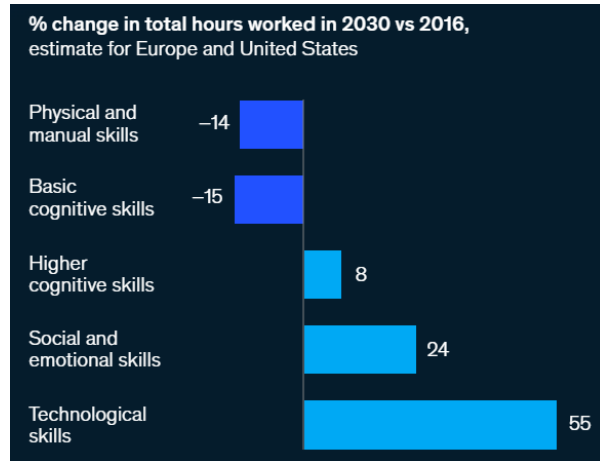
Organized by

dmg::events

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Soft Skills are much harder to replicate via automation and AI, and they are at the core of this rapidly impending shift.

HR Professionals report difficulty recruiting candidates who have the necessary soft skills.

% change in total hours worked in 2030 vs 2016, estimate for Europe and United States

Physical and manual skills	−14
Basic cognitive skills	−15
Higher cognitive skills	8
Social and emotional skills	24
Technological skills	55

Top three areas of missing soft skills, % of respondents

Problem solving, critical thinking, innovation and creativity	37
Ability to deal with complexity and ambiguity	32
Communication	31

Organized by

dmg::events

#THEBIG5EXHIBITION
www.thebig5.ae

Talks Technology | THE BIG 5

SOFT SKILLS VS HARD SKILLS

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

SOFT SKILLS

Interpersonal and character traits

- Listen
- Develop empathy
- Be patient
- etc

VS

HARD SKILLS

Specific set of knowledge and quantifiable abilities.

- Training/Courses
- Practice
- Hands-on experience

Organized by

dmg::events

SOFT SKILLS DEVELOPMENT
DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

USEFUL TIPS

- Communicate without talking down. Even if you know more about the system capabilities and implementation process, be kind.
- Always explain new terms or acronyms.
- Try to use language that is easy to understand for everyone.
- Positive encouragement. Always give positive feedback when the team is learning something new or shows signs of being proactive.

Photo by John Schnobrich on Unsplash

Organized by

dmg::events

HARD SKILLS DEVELOPMENT
DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

USEFUL TIPS
- Enroll in relevant courses/training programs
- Self-learn online. Many resources available: Youtube channels, Blogs, Software Vendor free courses, Technical demos
- Join a more knowledgeable colleague and learn while collaborating
- Promote Digital Transformation in your organization so management can move forward with initiatives and you can learn on the job (practical experience)

Photo by Jay Wennington on Unsplash

Organized by

dmg::events

HARD SKILLS DEVELOPMENT
DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

Digitize key construction processes with Autodesk Build

AUTODESK UNIVERSITY 2022

- Become proficient in Autodesk Build key functionality
- Apply Autodesk Build features to your company's key processes
- Adopt efficient ways to collaborate between different stakeholders in a project
- Avoid costly issues and mistakes on site by leveraging live information and task accountability

LINK

Organized by

dmg::events

#THEBIG5EXHIBITION
www.thebig5.ae

BENEFITS OF CLOUD COLLABORATION

DIGITAL TRANSFORMATION JOURNEY - A MINDSET SHIFT

CONSTRUCTION TECHNOLOGY IN OPERATIONS

- Live data
- Accountability
- Single Source of Truth
- Better Collaboration and communication
- Clear permissions, roles and repeatable project structure
- Faster solution to everyday issues – on site or office
- Time Savings
- Less Project Risk (more visibility)

Autodesk

Organized by

dmg::events

SUCCESS STORIES IN THE REGION
DIGITAL TRANSFORMATION - CONSTRUCTION INDUSTRY

KHANSAHEB - DUBAI

"Instant and transparent, offering **accountability for everyone** – including consultants, subcontractors and within the Khansaheb teams." The business can in turn give confidence to project stakeholders and clients about the progress of the overall project.

"Time spent on snagging administration has been reduced by up to **60%**. Engineers spend less time following up on issues; previously, around **10-15%** of engineers' time would be spent following up with subcontractors for updates, whereas with Autodesk Build it's possible to assign responsibility and due dates for individual fixes."

Eoin Nield, BIM Manager

AUTODESK CONSTRUCTION CLOUD

FOLLOW · NEWSLETTER · SUBSCRIBE

DIGITAL BUILDER
Your daily construction blog

TRENDS · STORIES · TIPS & TOOLS · PRODUCT NEWS

How Khansaheb Reduced Snagging Administration by 60% with Autodesk Build

GENERAL CONTRACTORS · By Mohammad Abou Assali · January 27, 2022 · 9 min read

More Info: LINK

#THEBIG5EXHIBITION
www.thebig5.ae

Organized by

dmg::events

SUCCESS STORIES IN THE REGION
DIGITAL TRANSFORMATION - CONSTRUCTION INDUSTRY

KHANSAHEB - DUBAI

There are now around **100 individual users** and **30 companies** on the platform, encompassing stakeholders from senior engineering staff to Quality Assurance (QA) / Quality Control (QC). Everyone can access the information they need, when they need it, and be confident that the data is accurate and timely.

Working with Accienta has played an important role in supporting this adoption. **"Having a partner that is expert in the construction industry, as well as the technology, meant that the process was very accessible for our team."**

AUTODESK CONSTRUCTION CLOUD
FOLLOW   NEWSLETTER   SUBSCRIBE

DIGITAL BUILDER
Your daily construction blog
TRENDS   STORIES   TIPS & TOOLS   PRODUCT NEWS

How Khansaheb Reduced Snagging Administration by 60% with Autodesk Build

GENERAL CONTRACTORS   By Mohammad Abou Assali   January 27, 2022   9 min read
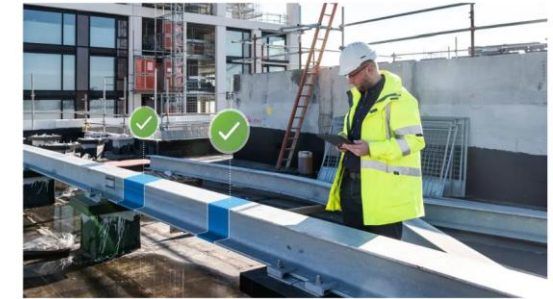
SUCCESS STORIES IN THE REGION
DIGITAL TRANSFORMATION - CONSTRUCTION INDUSTRY

> "Managing construction projects effectively is an extremely difficult and detailed task. Having a clear view into costs, progress and projections can be elusive. However, our custom Smartsheet solution offers a host of information available to users at the click of a button."
>
> Khalil K Khouri, CEO, NSCC

More Info: LINK

NSCC INTERNATIONAL – ABU DHABI

"Our goal was to effectively digitise the entire reporting engine for the company," mentions Khalil K Khouri, CEO of NSCC. To do this, NSCC turned to Smartsheet, with the help of technology partner Accienta. "**Together with Accienta, we envisioned an extremely sophisticated construction reporting tool that would enable the client to go totally paperless**—from handwritten notes to a completely Smartsheet-driven front end that unified information on a single platform. The solution needed to encompass everything from completion rates to materials consumption to project spending," says Khouri.

Organized by

dmg::events

#THEBIG5EXHIBITION
www.thebig5.ae