

AUTOMATION OF DIGITAL PROCESS

CONSTRUCTION DESIGN & DOCUMENTATION

Lack of automation in digital design process towards data gaps causes inefficiencies. Many activities designers (Modellers) do today are being transformed into data, and many tasks of the design process can be automated.

BENEFITS OF DIGITAL AUTOMATION



REDUCE REPETITION

Remove unnecessary duplicated work



DATA ACCURACY

Significantly reduce human errors



INCREASE THROUGHPUT

Compete with speed of machine



DESIGN ANALYSIS

Perform computational design



HIGHER VALUE TASKS

Increase time for primary responsibilities

MERGING THE GAP

Play to your strengths and multiple intelligences; bolster them and leave the quantitative for the machines. Talk about AI & Automation not in terms of survival, but instead, how we're going to leverage, exploit, embrace, and capitalize on the changes.



Focus on qualitative

DECISION LEADERS

Ability
Complex
Tapping external knowledge
Acts of meaning



DIGITAL TECHNOLOGY

Ability
Synthesize information
Combine data
Arithmetic Equations
Repeat/Loop

Focus on quantitative



The best chess player in the world recently was neither a chess master nor a computer, but a couple of teenagers with a laptop.

ADDED BENEFITS

There are measures that can be taken to prepare, so that the opportunities offered by automation can be captured.



ENABLE SMALL PLAYERS,

including individuals and small companies to undertake project work that is currently carried out within bigger firm.



AUTOMATION WILL COMPENSATE

for the current shortage of available and competent manpower, with regards to the BIM Team.



IMPROVE STAFFS PSYCHOLOGICAL STATE

through the removal of repetitive and monotonous tasks to allow for a higher variance of higher value work. Doing so will effectively lower staff turn-over rate.



HOOOOO

MAGIC MADE BETTER

Using Dynamo Plug-in to automatize digital processes in revit

DYNAMO EXECUTION PLAN (DEP)

Product Key Position



RESPONSE TIME

Speedy re-configuration and fixes at short notice



FLEXIBILITY (SHORT-TERM SUCCESS)

Flexible to changing needs across project duration



ADAPTABILITY (LONG-TERM SUCCESS)

Products are portable or recyclable to new projects



USABILITY

Tech-friendly. Requires minimal training and supervision