

# YOUR CONTACTS



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## SMART-LEAN, OR HOW TO TAKE THE BEST OF LEAN AND SMART AUTOMATION APPROACHES



An approach combining the best of the 2 levers to maximize and secure the automation of optimized & value-added processes



**Process improvement** approach allowing quick & long-term savings, BUT...

... Which is generally limited to non-IT opportunities (because expensive, complex & time-consuming to set up in IT)



- Respond quickly and  $\checkmark$ effectively to process inefficiencies
- $\checkmark$ Set up suitable operating methods
- Significantly reduce lead  $\checkmark$ times and stocks and increase productivity



# **Smart** automation

- Automate repetitive  $\checkmark$ tasks with low added value
- $\checkmark$ Allow employees to focus on high-value added activities ("customer" contact)
- Secure non-quality



... Which is generally taken as an IT project and misses the Added Value module of the process automation



# SMART LEAN BOOSTS LEAN BENEFITS AND ADDRESSES ITS LIMITATIONS FOR GREATER IMPACTS



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### DEPENDING ON THE TYPE OF WASTE LEAN OR SMART AUTOMATION WILL BE MOST SUITED, SMART LEAN ENABLES TO TACKLE ALL TYPES OF WASTE EFFICIENTLY

|          | 8 types of wastes                                                                             | Power of Lean & Smart automation | Comments                                                                                                                                                                            |
|----------|-----------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -<br>-   | Transportation - Unnecessary movements of products & materials                                |                                  | <ul><li>Tours improvement, batch sizing</li><li>Digitalization topic rather than RPA topic</li></ul>                                                                                |
| णण<br>णण | <b>Inventory -</b> Excess products and materials not being processed                          |                                  | <ul> <li>Pulled flow, Work-In-Process control</li> <li>24/24 bandwidth and automation led flash time reduction</li> </ul>                                                           |
| ĴŢ       | <b>Motion -</b> Unnecessary movements by people (e.g. walking, cross applications navigation) |                                  | <ul> <li>Non value added activities deleted/ diminished</li> <li>Automation boosted Lean benefits e.g. cross applications information transfer by bots</li> </ul>                   |
| X        | Waiting - Wasted time waiting for the next step in the process                                |                                  | <ul> <li>One-piece flow, validation frequency increase, batch downsizing</li> <li>24/24 automation led shrinking of waiting time</li> </ul>                                         |
|          | <b>Overproduction -</b> Production in excess of need                                          |                                  | <ul> <li>Non value added inputs/outputs deleted/ diminished</li> <li>Automation led "on demand" volume adjustment</li> </ul>                                                        |
| ୖୢ       | <b>Over-processing -</b> More work or higher quality than is required by the customer         |                                  | <ul> <li>Focus on client value-added, tasks re-ordering, "just in case"<br/>activities questioning, complexity segmentation</li> <li>Automation of simplified activities</li> </ul> |
| <b>〈</b> | <b>Defects -</b> Efforts caused by rework, scrap, and incorrect information.                  |                                  | <ul><li>Mistake proofing, data format enforcement</li><li>Automation powered mistake proofing, audit trail</li></ul>                                                                |
|          | <b>Miss-utilized talents -</b> Underutilizing people's talents, skills & knowledge            | Lean                             | <ul> <li>Non value added tasks minimized, competencies matrix</li> <li>Bots focused on repetitive tasks, manpower on value-added tasks</li> </ul>                                   |

Smart automation

# THE SMART LEAN APPROACH IS BASED ON A 5 STEPS FRAMEWORK INCLUDING AGILE DELIVERY



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management 6

# A TARGET OPERATING MODEL MIXING FUNCTIONAL AND TECHNICAL ROLES IS SET UP

### **Business lines**

- Identify opportunities for improvement
- Implement Lean improvements
- Develop business case
- Qualify automation opportunities
- · Prioritise their own opportunities pipe
- Monitor deployment plan and benefits materialisation
- · Carry out UAT
- Sit on Automation governance

# **Automation Center of Expertise**

- · Technically qualifies automation opportunities
- Evaluates and communicates automation opportunities complexity and feasibility timeline
- Develops automation opportunities and implements them into production
- · Maintains and upgrades automated opportunities
- Defines and enforces developpement norms
- Monitors scripts library
- Defines, collects and improves automation performance KPIs
- Sits on Automation governance





# **Automation Governance**

- Sets automation guiding principles, do's and dont's
- Prioritises pipe of improvementsonce consolidated on the many Business lines
- Approves developpement of automation
- Spreads best practices

- · Promotes post mortem key learnings
- Monitors improvements deployment plans and benefits materialisation across business lines

# APPENDX

# **PROCESS ASSESSMENT WILL DETERMINE WHICH SMART AUTOMATION LEVERS WE CAN LEVERAGE TO DELIVER THE MOST VALUE**

#### **Smart Automation enablers**

#### Process Automation for.

- Repetitive
- Rule Based
- Structured Data



#### Virtual Agents using,

- Natural Language Processing
- For human like UI or dialogue
- Multifactor authentication
- Knowledge Processing



#### **AI Advisors**

• Enables machines to sense, comprehend, act and learn. To analyze data and make informed decisions on their own or with minimal human augmentation or intervention.



#### **Predictive Analytics**

- encompasses a variety of statistical techniques from data mining, predictive modelling, and machine learning, that analyze current and historical facts to make predictions about future or otherwise unknown events to identify risks and opportunities.



#### Business Process Management for,

- Process Orchestration
- Scripts, macros, bath program
- Minibots & Auto Hotkeys

#### **Machine learning**

 Automate process areas involving human judgement and interaction leveraging ML/DL based algorithms, computer vision technologies and virtual agents

#### **Natural Language Processing (AI)**

- The ability to understand human language as it is spoken.
- Can deal with unstructured data

#### **Intelligent OCR**

 Advanced optical character (incl handwriting) that allows fonts and different styles of handwriting to be learned by a computer during processing to improve accuracy and recognition levels and digitize paper based inputs

## To deliver tangible benefits...



#### **Increased Productivity & lower costs**

- Potential to operate 24x7
- Processing costs reduced by 80%



#### **Higher Staff satisfaction**

Eradicating monotonous tasks allowing individuals to focus on higher value work



#### **Reduction in Lead Time**

• UP to 20 times faster response & processing time



#### **Consistent quality delivered**

100% Error Reduction



#### **Provision of greater visibility** & auditability

 Individual cases can be stored and retrieved as evidence.



# **RPA** as a lever to go one step further in the search for efficiency and digitalization...

RPA (Robotised Process Automation or robotics) is the use of a virtual workforce (virtual assistants) capable of imitating human actions on a software by following a predefined script. It allows users to configure software "robots" to run all or part of existing processes, using several systems and applications, as a human would do;



# ... and generate quantitative & qualitative benefits

RPA brings advantages in terms of efficiency and quality while allowing great flexibility in its implementation and maintenance.

