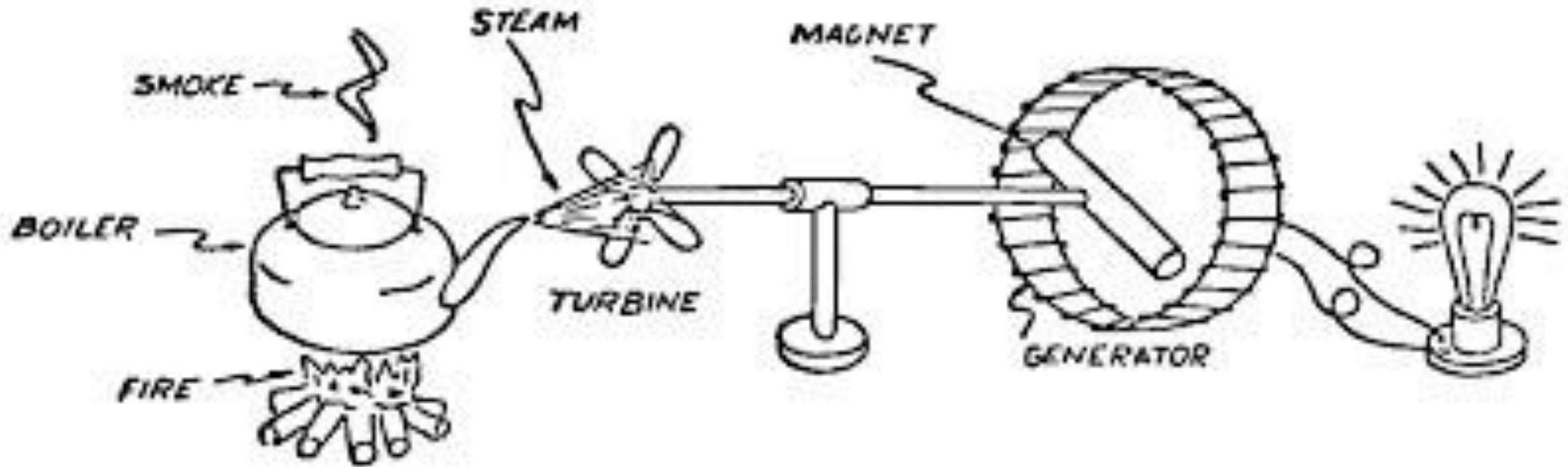


## PT JAWA POWER environmentally friendly and efficient

- Location: Paiton, Probolinggo, East Java
- Capacity : 2 x 610 Mwnet
- COD : 4 November 2000
- EPC Siemens
- 4 Mio tons of coal p.a.
- Avg > 90% availability since 2000
- Shareholders: Siemens (50%) YTL & Marubeni (35%)  
PT Bumipertiwi (15%)

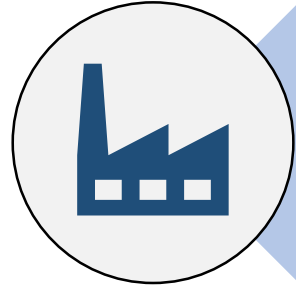
PROPER KLHK : 2 **Gold** & 11 **Green** Awards



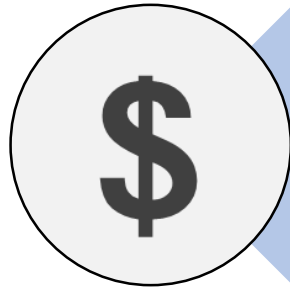
A steam fired powerplant is high tech, 130 years of optimization for efficient and effective power generation at the highest possible environmental standards!

# Digitalization is a key enabler of energy transition

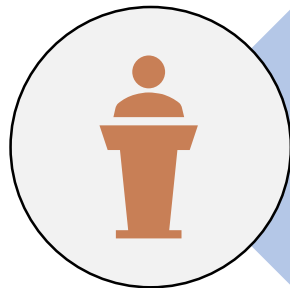
## Digital Angles for a Coal fired Power plant



Digital Control Systems for Coal plant, water cycle, turbine and generator for operation, analytics and prescriptive maintenance

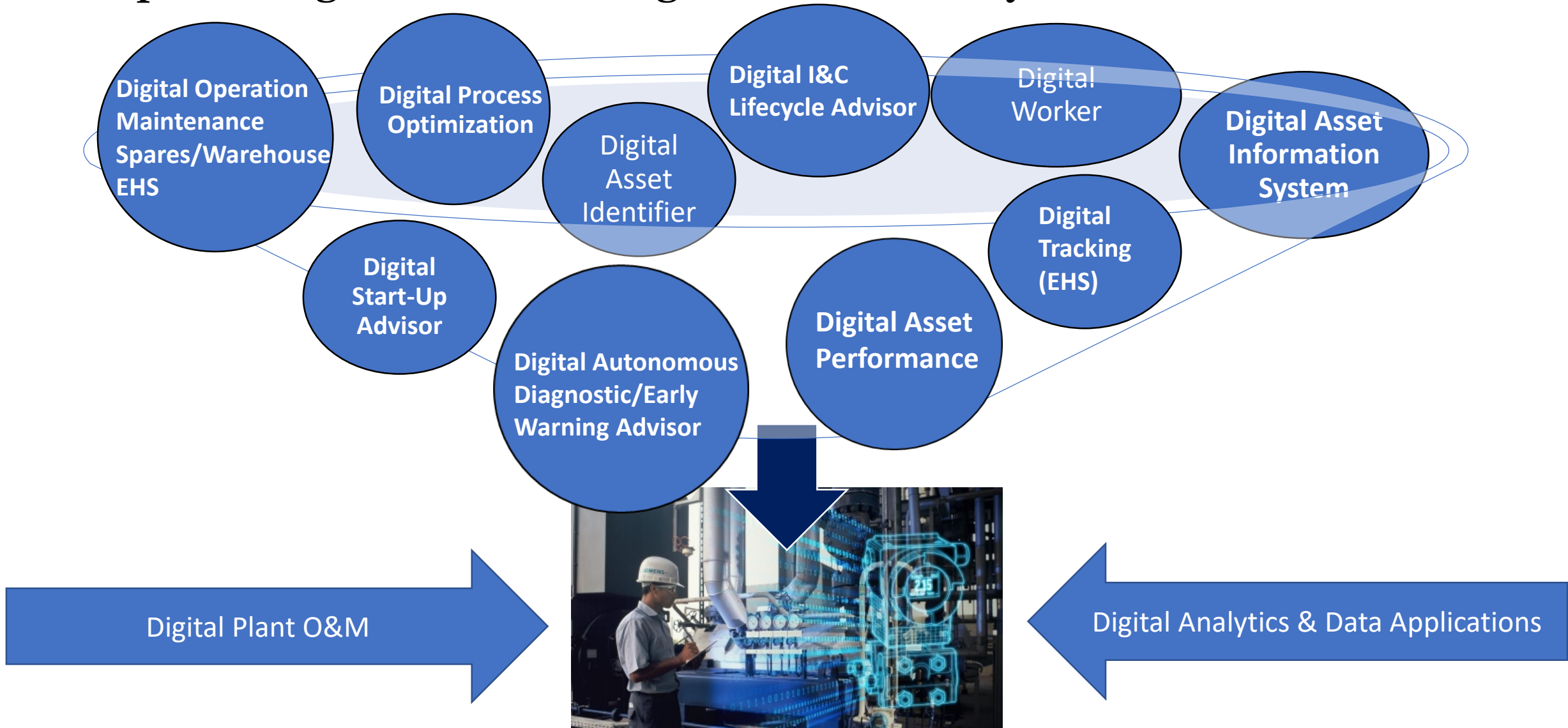


Asset management software, finance software plus payment integration for seamless processes, controlling, planning and reporting

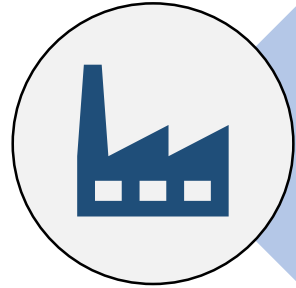


HR and Admin processes, cloud computing, archiving, security for paperless office at highest security levels

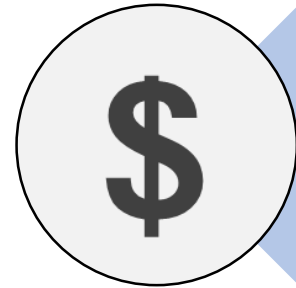
# The future is to continue to digitalize the plant and analyse in Mindsphere to get increased diagnostics and analytics



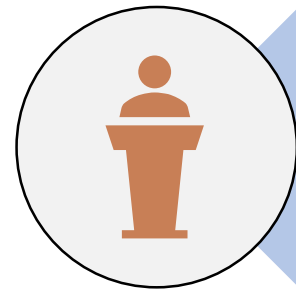
# Challenges of the digital journey



Technology not yet ready, too many permutations of technical issues.

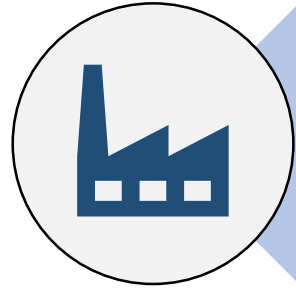


Integration of software in reality not so easy, Change Management issues as well

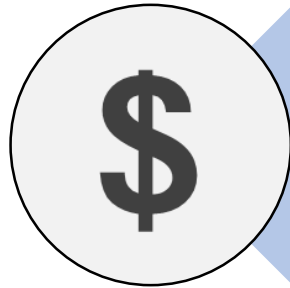


Change Management challenges

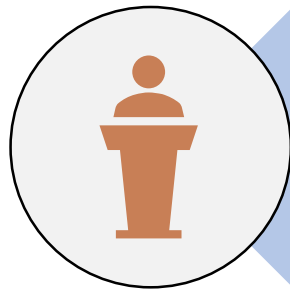
# Output and benefits of Jawa Power Digital Journey today and tomorrow



Availability & Reliability,  
Secure Knowledge, De-risk



Near paperless process at higher  
controls and security, reduced cost,  
increase market outreach,  
reallocate resources



Near paperless process at higher  
controls and security, user-friendly,  
time reduced, cost reduction, job  
enhancement