

AUTONOMOUS SHIPPING

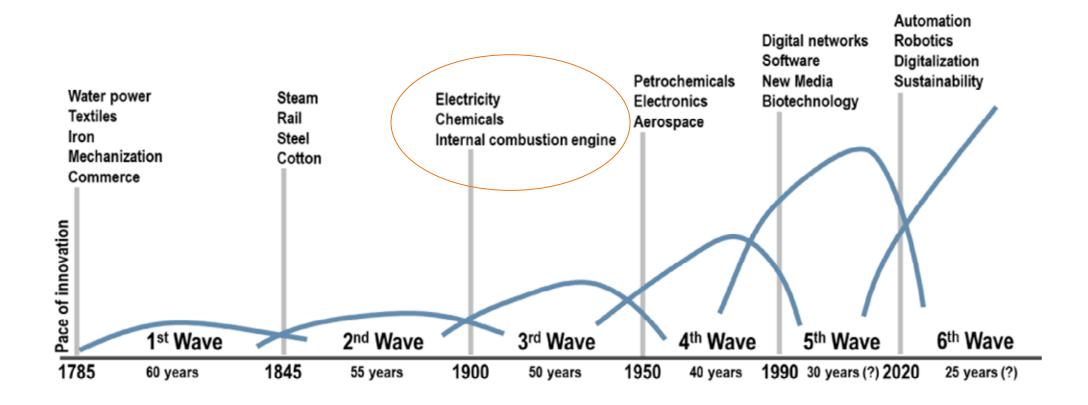
- Damen is making its first steps towards autonomous vessels.....
- But is this really the future? Why should we be interested?



"New idea, creative thoughts, new imaginations in form of device or method"

The application of better solutions that meet new requirements, unarticulated needs, or existing market needs.







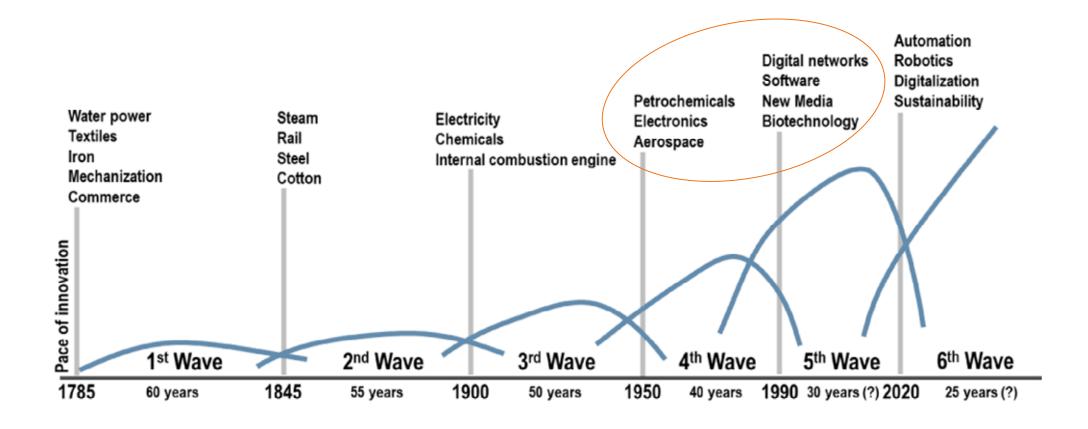
Easter morning 1913: 5th Ave, New York City. Spot the horse.



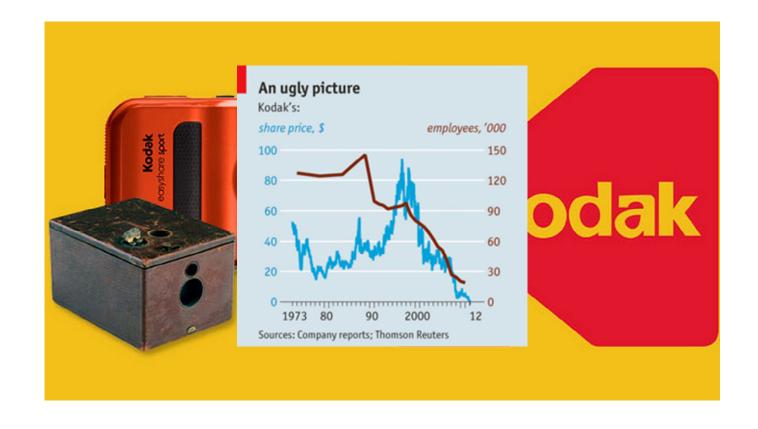
Source: George Grantham Bain Collection.

Source: US National Archives.









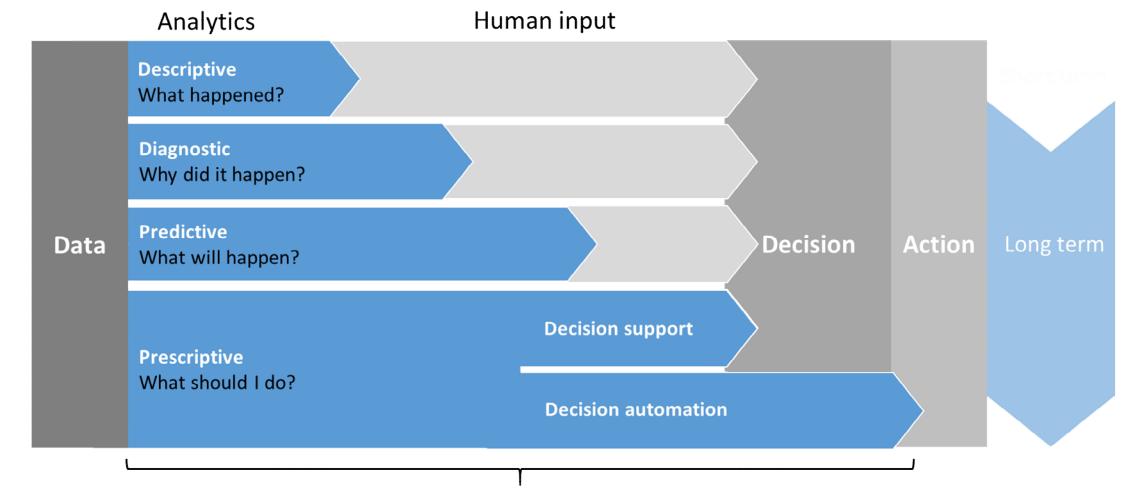


AUTONOMOUS SHIPPING

- Damen is making its first steps towards autonomous vessels.....
- But is this really the future? Why should we be interested?
- The answer is clear: in order to survive, we **must** be interested



AUTONOMOUS SHIPPING: HOW?



Damen analytics portfolio



AUTONOMOUS SHIPPING: HOW?

STEP 1: CONNECTING THE VESSEL TO THE CLOUD

STEP 2: TRANSFER DATA TO INFORMATION

STEP 3: ENRICH THE VALUE BY ADDITIONAL DATA TRANSFER

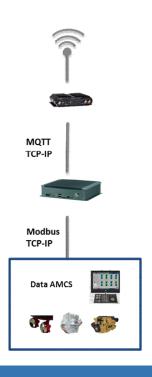
STEP 4: PROCESS & VISUALIZE THE INFORMATION

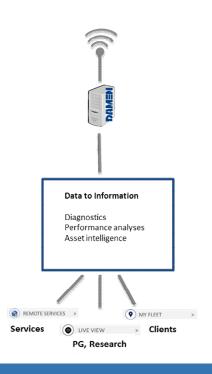
STEP 5: PROVIDE ADVICE BASED ON THE INFORMATION

STEP 6: ACT BASED ON THE INFORMATION



STEP 1: CONNECTING THE VESSEL TO THE CLOUD

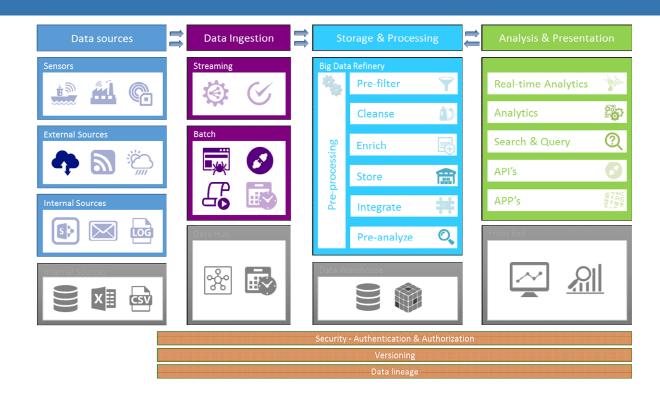




SELECTING THE RIGHT GATEWAY SOLUTION

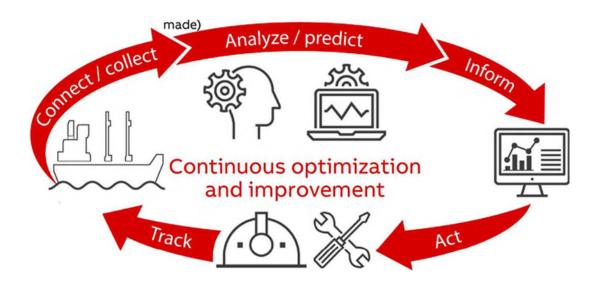


STEP 2: TRANSFER DATA TO INFORMATION



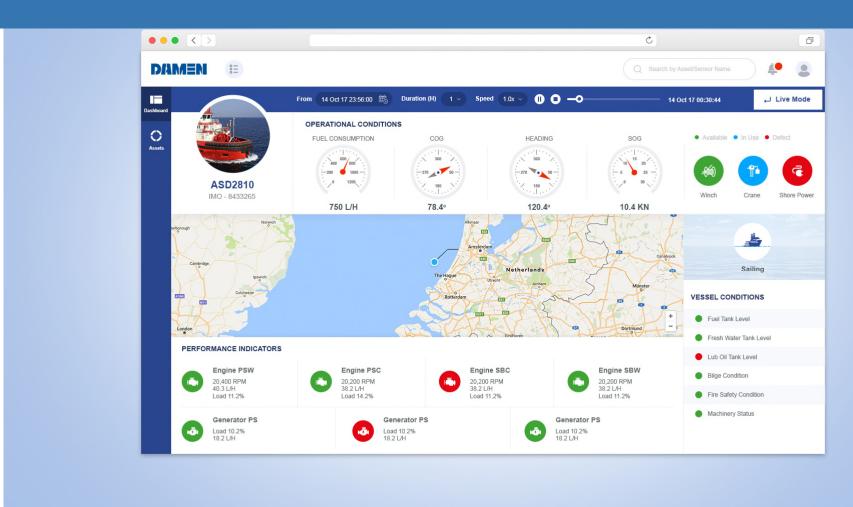


STEP 3: ENRICH THE VALUE BY ADDITIONAL DATA TRANSFER





STEP 4: PROCESS & VISUALIZE THE INFORMATION





STEP 5: PROVIDE ADVICE BASED ON THE INFORMATION



PROVIDE ADVICE FROM SHORE



STEP 6: ACT BASED ON THE INFORMATION

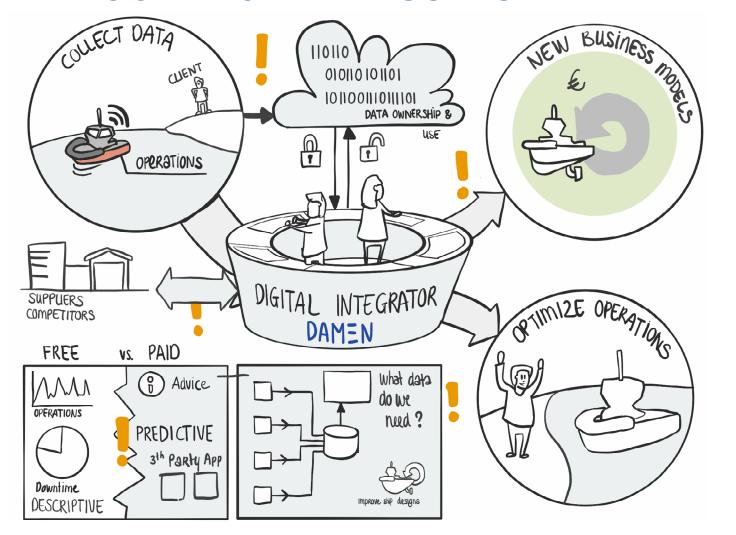




DECISION SUPPORT / DECISION AUTOMATION



DAMEN DIGITAL: CONNECTED VESSELS





CONCLUSION

- Embrace new technologies and innovations
- Outside-in approach
- We are ready for the future

