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Closed projects

Global Target of projects

- To find possibilities to improve all characteristics, localize production of parts, to find saving possibilities (price reduction by selecting other materials with similar characteristics), to prepare special editions of models (external changes of parts for the special version + characteristics improvements in same time)

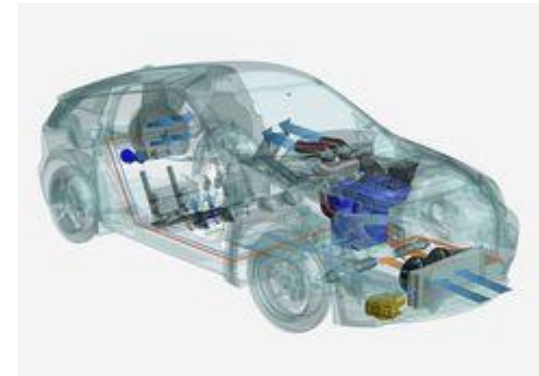
All projects and subjects follow according Project Managing principles - from initialization, scheduling and planning to check milestones and production, delivery to assembly plants.

- In few words the project include the milestones:

Presentation of project => Specialists and team validations
(Engineering, Budget, Quality) => Planning => Verification on special
committee => Activities of supplier according body of project (planning
follow-up) => Tests (supplier' tests, trials on car) => confirmation for
modification => Logistics => assembly

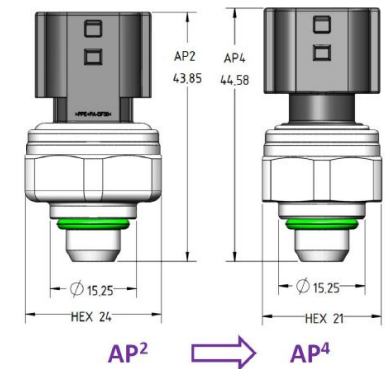
Localization of watertank HVACs (Heater Ventilation Air-condition)

- Reason: Saving
- Lead time - 10 month (From initialization to delivery first part to Russia plant)
- From France to Russia
- No technical changes
- Economical impact: saving - 294 kRub per year
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- On supplier responsibility after negotiations:
- R&D – 27 kEuro + 526 kRub



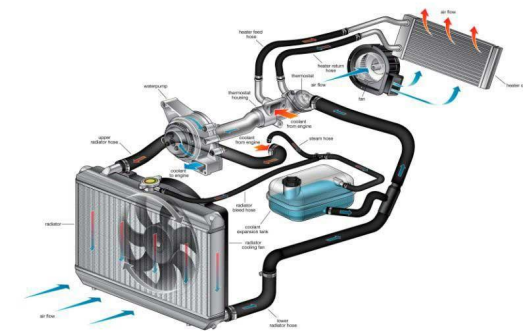
Change of pressure sensor for AC Pipes

- Reason: Saving, Evolution of product
- Lead time - 8 month (From initialization to delivery first part to Russia plant)
- Changes in body of pressure sensor. No technical impact
- Total Economical impact: - 24 kEuro



To add protection sleeve to water hoses because of contact with head lamp

- Reason: Quality issue - Contact between water hoses of cooling system and head lamp of car
- Target: To add protection sleeve on water hose ASAP
- Lead time - 4 month (From initialization to delivery first part to Russia plant)
- Main issues – to protect a client, to make tests for confirmation of efficiency for solution
- Overcost per part: + 0,5 Euro
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- Investments 10 kEuro (Amortization)
- Laboratory tests – 8 kEuro



Rubber part change for AC pipes

- Reason: Saving, Evolution of product
- Target: To sub-supplier and material of rubber part. The implementation of project is improve characteristics, part become cheaper.
- Lead time - 8 month (From initialization to delivery first part to Russia plant)
- Total saving 89 kEuro



Change of supplier for aluminum foil from Rusal to new sub-supplier

- Reason: Risk of sanctions for RUSAL => Immediately Prohibition of purchase
- Solution: to change sub-supplier before sanction be implement for RUSAL
- Lead time - 7 month
- Total saving – 14 kEuro
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- On supplier responsibility after negotiations:
- R&D, labeling



Steering Wheels

- External changes of parts for the special version + characteristics improvements in same time
- Reason: Improvement of quality, to prepare derivative versions
- Target: start production of part with improvements and facelift for derivative versions
- Lead time - 6 month
- Investments: Tooling 80 kEuro
- Amortization: Overcost 1 Euro/part for 20 kUnits

