

Problem Decomposition

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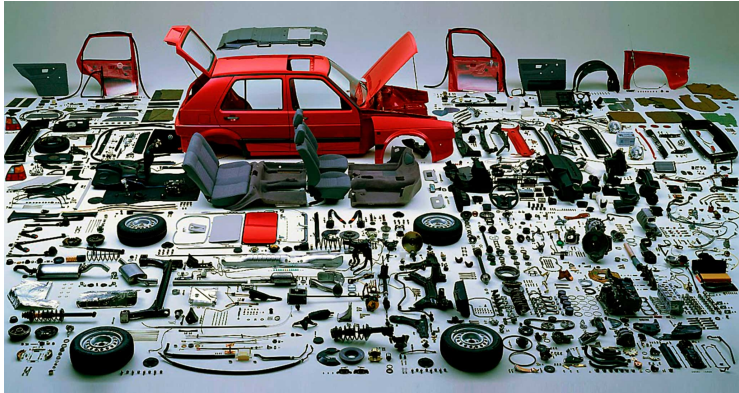
Problem Decomposition

Advantages

1. Allows step by step solution.
2. Reduces complexity by only retaining important details
3. Enables *division-of-labour* and *specialisation*.
4.
 - ▶ **Division of labour.** Ensuring that all *team members/system components* share the load equally.
 - ▶ **Specialisation.** *Team members/system components* good at something get responsibilities aligned to their capability, and thereby get a chance to become better in their work.
5. Improves plan revision.
6. Improves *modularity* (to be discussed in a later session).

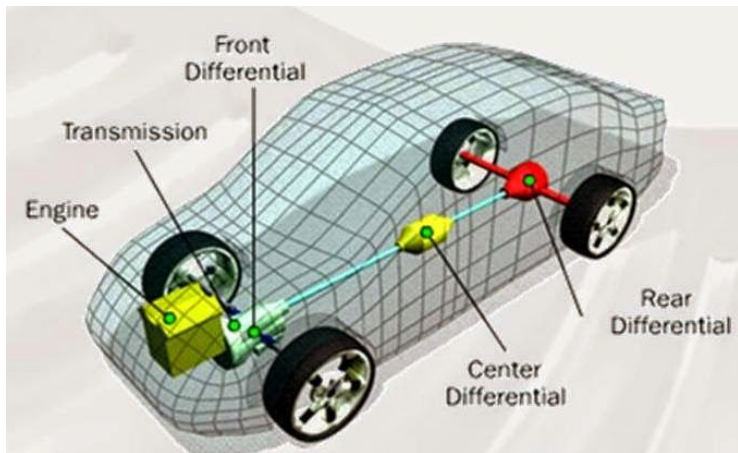
Problem Decomposition

Car



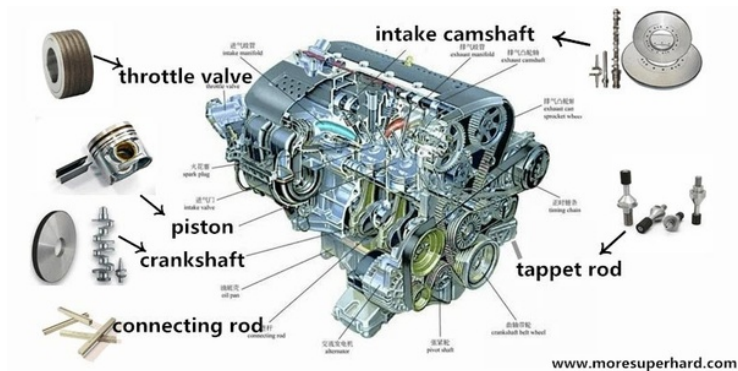
Problem Decomposition

Car



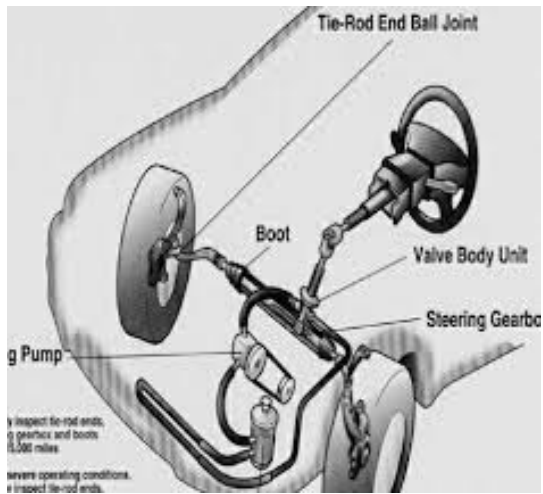
Problem Decomposition

Car - Engine

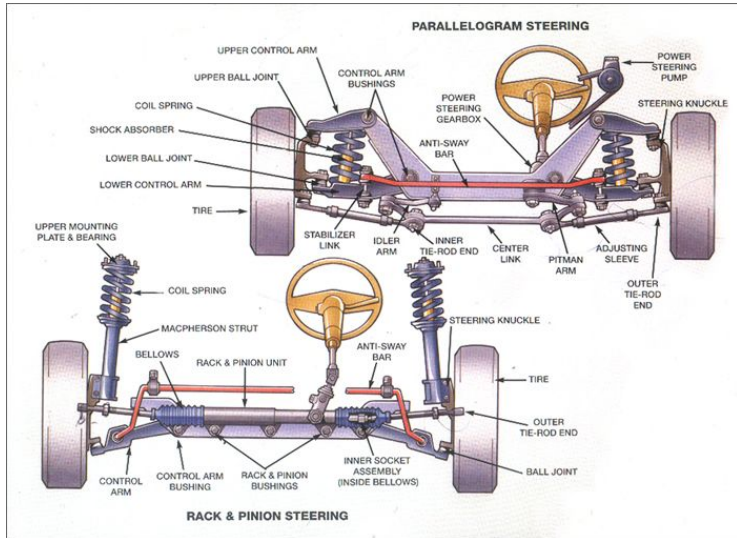


Problem Decomposition

Car - Steering system



Car - Suspension



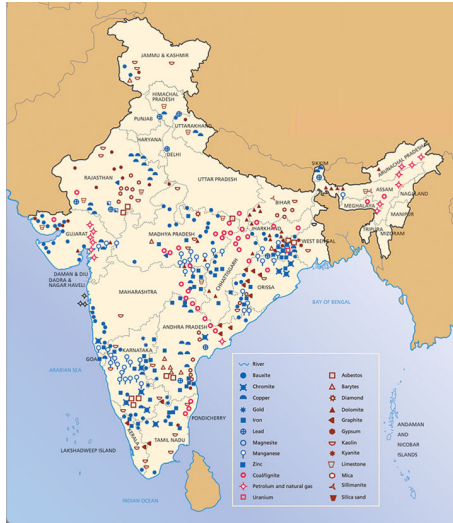
Problem Decomposition

Map - Political



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