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# The Gearbox Syndrome

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# The gearbox syndrome

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# The gearbox syndrome

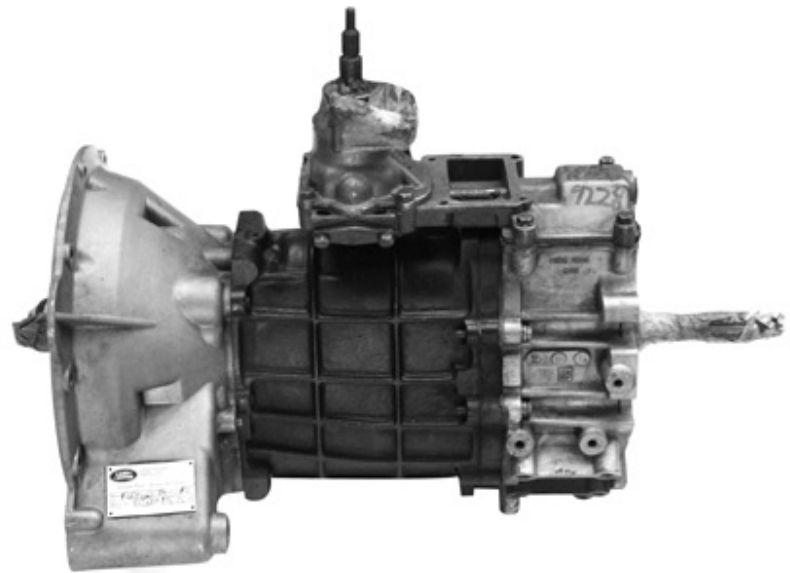
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**First engineer offering help**

# The gearbox syndrome

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# The gearbox syndrome

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**Second engineer offering help**

# The gearbox syndrome

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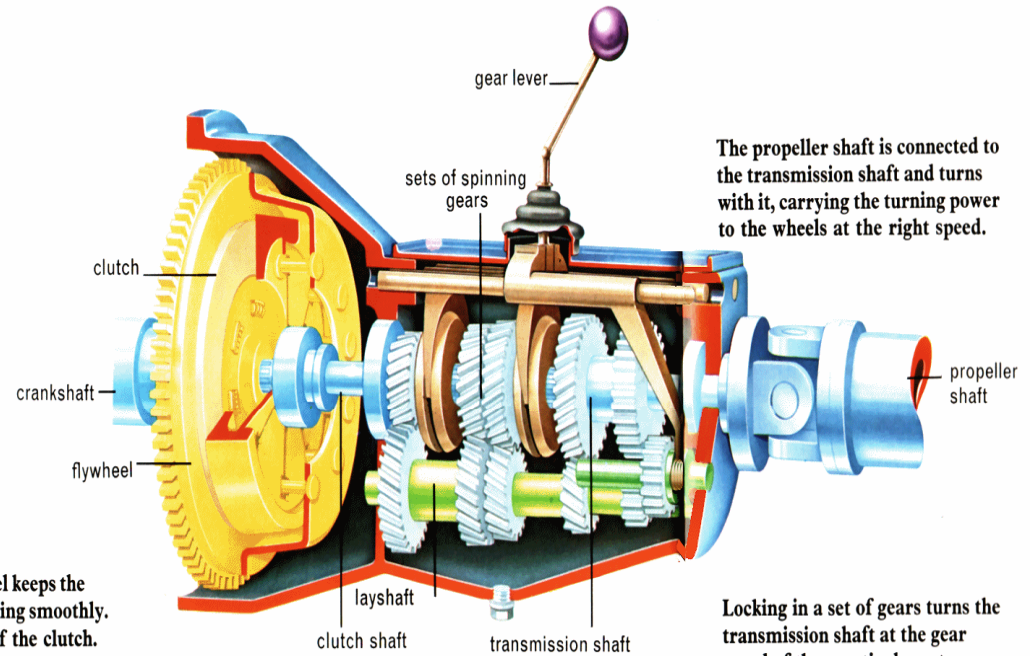
# The gearbox syndrome

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**Third engineer offering help**

# The gearbox syndrome



A heavy flywheel keeps the crankshaft turning smoothly. It forms part of the clutch.

With the clutch plate pressed against the flywheel, the clutch shaft turns round, turning the gears on the layshaft and the transmission shaft.

The gears on the transmission shaft spin around until one is locked into place with a gear on the layshaft below by the driver shifting the gear lever.

The propeller shaft is connected to the transmission shaft and turns with it, carrying the turning power to the wheels at the right speed.

Locking in a set of gears turns the transmission shaft at the gear speed of that particular set.



# Where do we come in?

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# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**

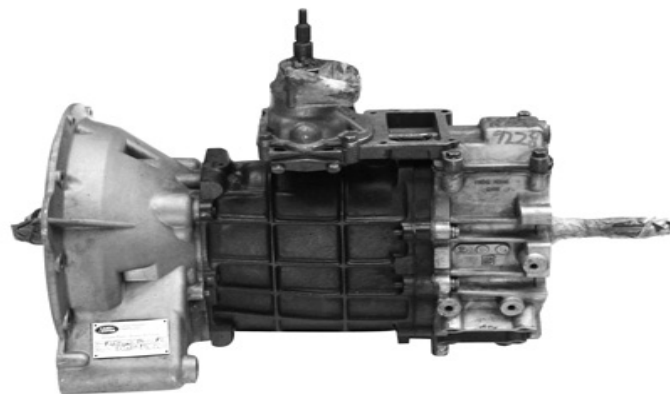


**First HLT researcher offering help**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**



**First generation named entity recognizer  
(rule based)**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**



**Second HLT researcher offering help**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**



**Second generation named entity recognizer  
(statistics based)**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**

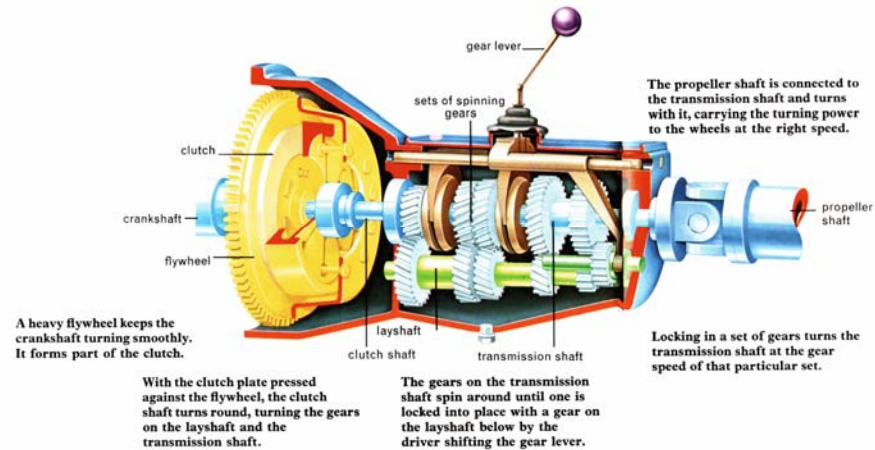


**Third HLT researcher offering help**

# The gearbox syndrome explained



**Humanities scholar with a problem,  
waiting for a solution**



**LREC 2012 paper about next generation  
named entity recognizer**



# Are you gearbox makers?

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- Look at your list of publications and draw your own conclusions ...

# Does CLARIN need gearboxes?

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Yes and no

Yes:

- They are indispensable because they provide the main building bricks needed to solve HSS problems

No:

- Just having gearboxes is not sufficient: we also need (examples of) complete buses to take passengers from where they are to where they want to be

If you are not in CLARIN you can just spend the rest of your lives making better gearboxes

But if you are in CLARIN this is not enough!

# What needs to be done?

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Three possible ways forward:

- HLT researchers should not just focus on their engines and tools but also think about complete workflows
- HLT researchers should team up with HSS scholars and help them to solve their problems
- HSS scholars should be educated in how to apply HLT results in their daily research practice

All three directions should be pursued, and it is one of CLARIN's main tasks to make this happen.

# My questions to you

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(you = individual, centre, consortium)

- Do you have any (positive or negative) experience with any of the ways forward I sketched (workflows, teaming up, education)
- Do you have any creative ideas about what we could try to do along these lines?
- Do you see any other ways forward and ways to pursue them?