

**CE D 5**

Autonomous Intelligent Cruise Control (AICC)

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PROMETHEUS CED 5 / AICC System Functions Group	Nöcker DB
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COMMON EUROPEAN DEMONSTRATOR  
AUTONOMOUS INTELLIGENT CRUISE CONTROL

- AICC -

WORKPLAN

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DATE : April 11th, 1991

Version 2

*AICC workplan*



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## 1. CED DESCRIPTION

### 1.1 Mission statement

The main function of the AICC system can be summarized as follows :

*The Autonomous Intelligent Cruise Control (AICC) is an assisting system being able of controlling relative speed and distance between two adjacent vehicles in the same lane.*

The driver is still responsible for the safe control of his car, and can override the system at any time.

### 1.2 AICC definition

The AICC - CED mainly deals with PROMETHEUS Function 11 - Intelligent Cruise Control. The functional decomposition of AICC system based on PROMETHEUS Functions is represented in figure 1.

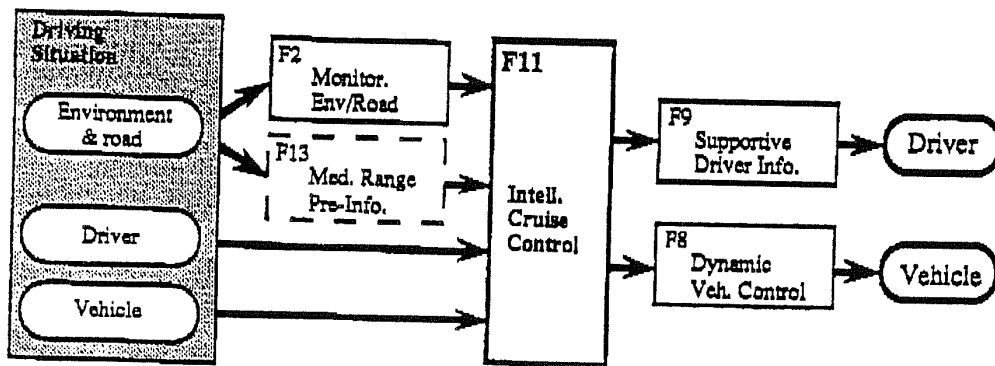


Figure 1 : Functional decomposition of AICC system

The AICC should be seen as an enhanced version of the existing Cruise Control system, not only keeping the speed but also a safe distance by adapting the speed of the own vehicle to that of a slower vehicle ahead.

As when using the present Cruise Control system, the driver remains fully responsible for the safe control of his car. The driver can override the system at any time by using his normal control devices.

The AICC vehicle is autonomous in that it does not rely on communication between vehicles, nor does it require any equipment to be carried by other vehicles. All kinds of principles for sensing will be considered and evaluated against the requirements in terms of performances, cost and availability.

When operating in AICC mode, all elements of longitudinal control (throttle & brake) are considered, but no element of lateral control.

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