



#### Sender/Receiver Interface

→ one way channel, transmit 'DataElements'

→ RTE APIs ('RTE Call')

Rte\_Read\_xxx, Rte\_Write\_xxx (explicit, direct)

Rte\_IRead\_xxx, Rte\_IWrite\_xxx (implicit, buffered)

#### Client/Server Interface

→ two ways channel, transmit 'Operations'

→ RTE API ('RTE Call')

Rte\_Call\_xxx

#### RunnableEntity (RE)

→ An RE is a schedulable 'function' in Autosar term; the major task for an app./swc developer is to impl. REs by modeling / coding to realize the functionalities based on the corresponding requirements.

#### ApplicationDataType (ADT)

→ optional, 'describe the physical view, allows spec. of Units (e.g. °C) and Constraints (e.g. min/max value of temperature)'

#### ComputeMethod

→ physical-to-Internal or Internal-to-Physical converter

#### ImplementationDataType (IDT)

→ describe an info-representation in SW, can be considered as typedef in C code based on BaseType; relevant at RTE Generation

#### BaseType

→ 'define how a Variable is held in ECU memory by RTE'; platform dependent part of IDT

#### BaseTypeMapping: ADT → IDT

## AUTOSAR CP Methodology (»4.x)

