

Tencent 腾讯 | CSIG
云与科技产业事业部

*Design of in-vehicle intelligent assistant
in continuous interaction and multi-person
interaction scenarios*



Trends and Pain Points

Not flexible

*The multi-device experience is fragmented,
and the human-computer interaction is inflexible.*

Lack of personality

*Lack of complete personality in the expression.
Cannot make users feel warm and pleasant.*

Main features



1、Efficiency

How to provide more efficient human-computer interaction for in-car scenarios?

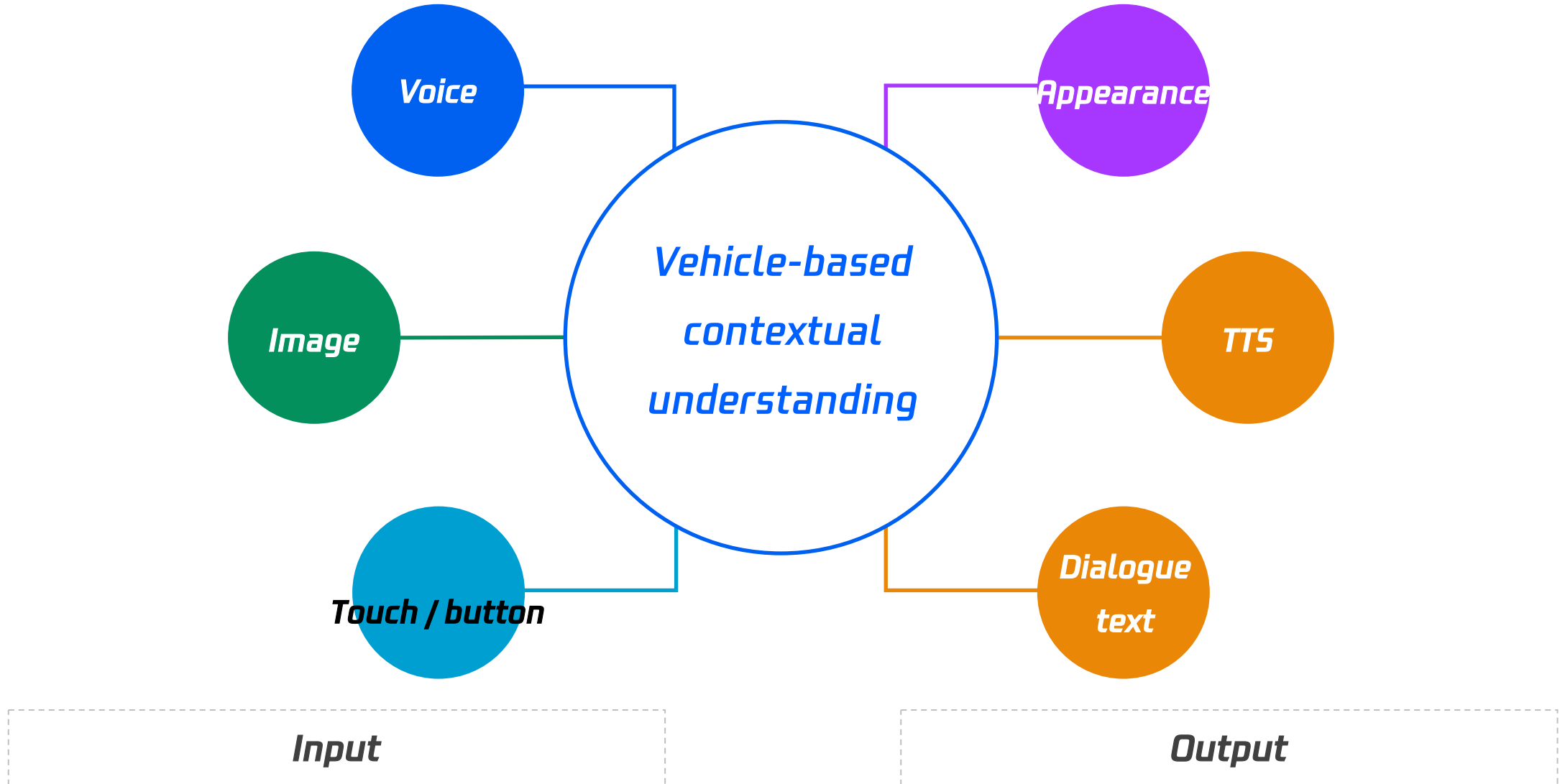


2、Companionship

How to make assistants extend from tool attributes to companion attributes?

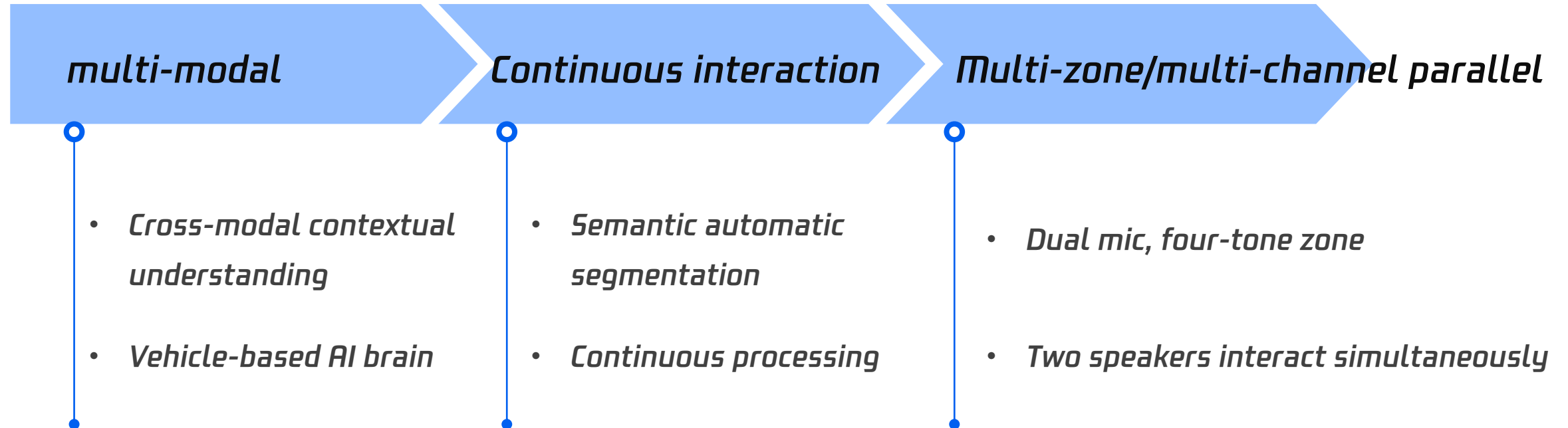
One AI brain drives multiple perceptions and expressions

An assistant born for the smart cars, provide natural interaction that better understands users.



Efficiency Assistant

Upgrade from voice to more intelligent multi-modal interaction, making human-computer interaction more efficient



Efficiency Assistant

Continuous interaction



Use case 1

User:

*Help me navigate to S Hotel, Nanshan district.
Keep the front window closed. Turn on the AC,
temperature 25, wind speed level 3. Play
some music from Adele.*

System: *(action one by one)*



Use case 2

User: *Help me navigate to S Hotel.*

System: *There are five S Hotels. Shall we go to the
first one in Nanshan district?*

User: *(OK gesture) and turn on the AC please*

System: *AC is on*

User: *(temperature adjustment using button)*

User: *two degree Celsius higher*

System: *Now turn to 27 degree Celsius*

Efficiency Assistant

Multi-person interaction



Use case 1

User 1: Play some music from Adele.

User 2: No, I would like to hear Taylor Swift.

System: Music from Taylor Swift.



Use case 2

User 1: Open the window to 50%.

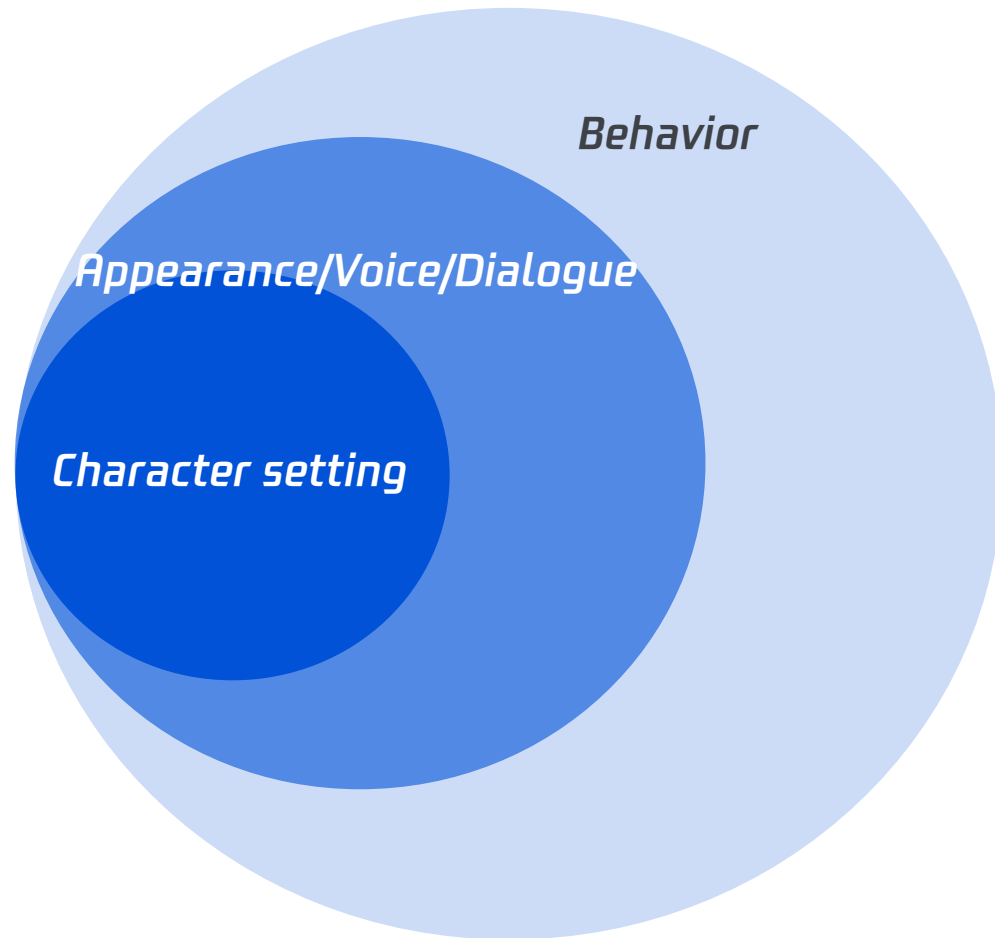
User 2: Same here.

System: Front-left window and the Right rear window are opening to 50%.

Emotional companionship



Emotional companionship



With emotional TTS, 3D Digital Human technology, and the design of the personalized system framework, we are committed to creating emotional companionship for users.

① 20+ actions, support singing and dancing



Tencent AI Lab

② Natural and human-like voices

- *The voice tone and segmentation of sentence are comfort and natural, close to the real human tone and feelings.*



- *Emotional TTS audio can be synthesized according to the users emotions or application scenarios, such as happy, angry, sad, fear, etc.*

Happy 

Sad 

Thank you