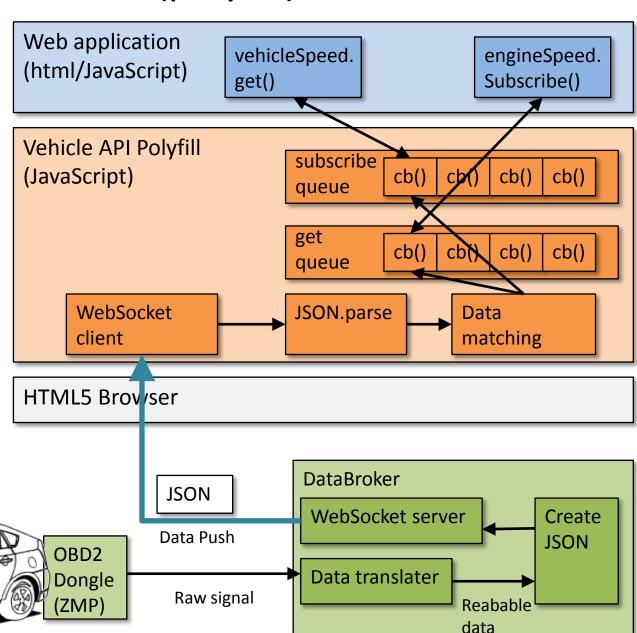
# W3C Vehicle API KDDI/ACCESS activity

2016 Apr, 28 ACCESS

### Vehicle API (polyfill) structure

#### Note:

- -KDDI/ACCESS implementation.
- -get(), subscribe() api and 20 data type supported.
- -Share single
  WebSocket connection
- -Databroker keep pushing JSON via WebSocket (one-way communication)

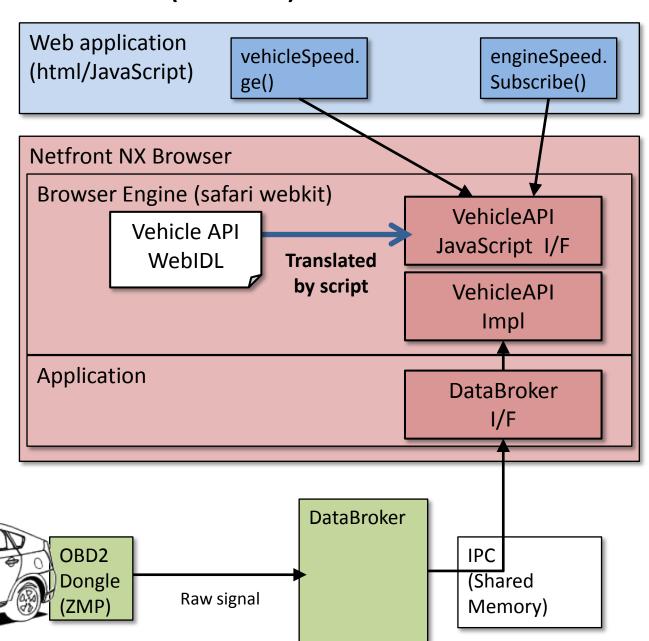


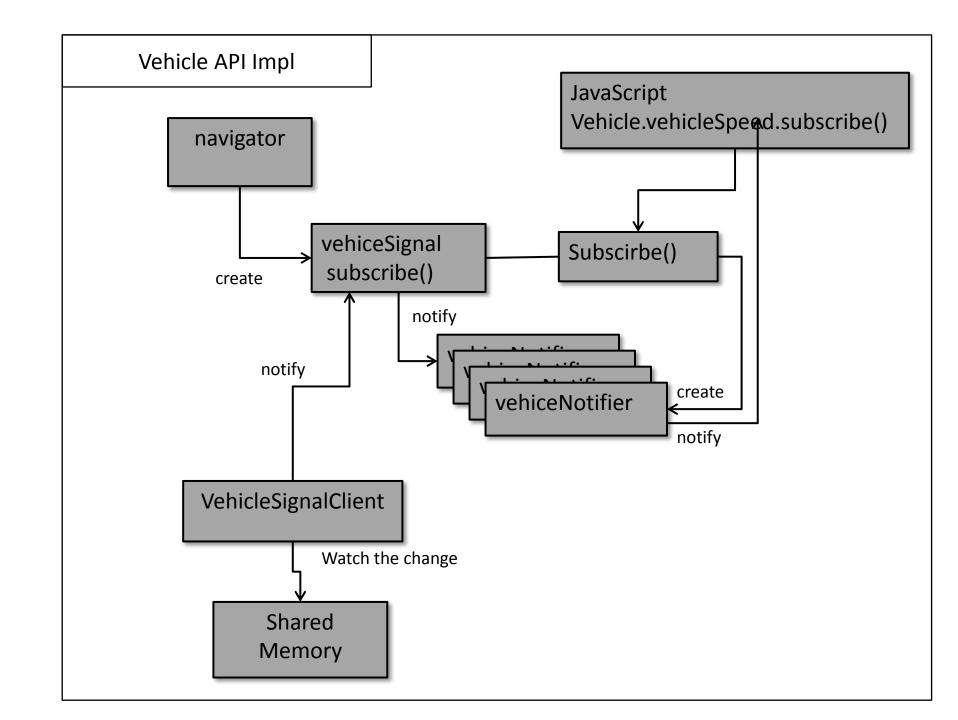
#### Vehicle API (native) structure

#### Note:

-partial implementation.

- -support subscribe().Get() is incomplete.
- -vehicleSpeed,engineSpeedsupport.





## **Pros Cons**

	Pros	Cons
WebIDL (JavaScript API)	-Easy to use for developer -Developer don't have to know how it is implemented (agnostic).	-Need implementation in Browser engine (or maybe Polyfill implementation is possible)
Service based API (Websocket-ish, REST-ish)	-Flexible to create, modify -No need to change Browser engine code	<ul><li>-If using websocket, using many connections consume resources.</li><li>-Developer may have to take care of connection.</li></ul>

## My questions

- What is the strong reason that WebIDL style API is not good and we should choose Service-based API?
- Service-based API should be implemented with REST API(HTTP)? or WebSocket? or both?
- How much part of the spec must be covered to be recognized as a reference implementation? Is there a rule?(in our polyfill, get(), subscribe() and 20 datatypes are supported.)
- How mush spec must be covered by test suite?

## Web and automotive hackathon In Tokyo

- Hackathon to utilize W3C vehicle API(FPWD).
- Planned and lead by KDDI-RI.



#### "Webとクルマのハッカソン"

コネクテッド・カー時代におけるWebと車の連携アプリノサービスを創発しよう!

今世界中でインターネットとつながるクルマが増えつつあるとともに、W3CでもVehicle APIの標準 化が進められるなど、クルマがWeb技術を利用する取組みに期待が高まっています。

そこで、本ハッカソンでは自動車の走行状態に関するデータ(車速、アクセル、ブレーキ、エンジン 回転数、オドメータ、ハンドル角度、燃費、車両位置、ドア状態、加速度、など)を利用しつつ、 HTML5などWebブラットフォームを活用したアプリケーション開発を競っていただきます。

クルマの情報とWeb技術の融合から生まれる新しいサービスやアプリを仲間と考えることで、クルマを取り巻く素晴らしい未来を共に創りましょう!



(<a href="http://www.kddi-ri.jp/hackathon/2016/result">http://www.kddi-ri.jp/hackathon/2016/result</a> sorry, all Japanese)

## Web and automotive hackathon In Tokyo

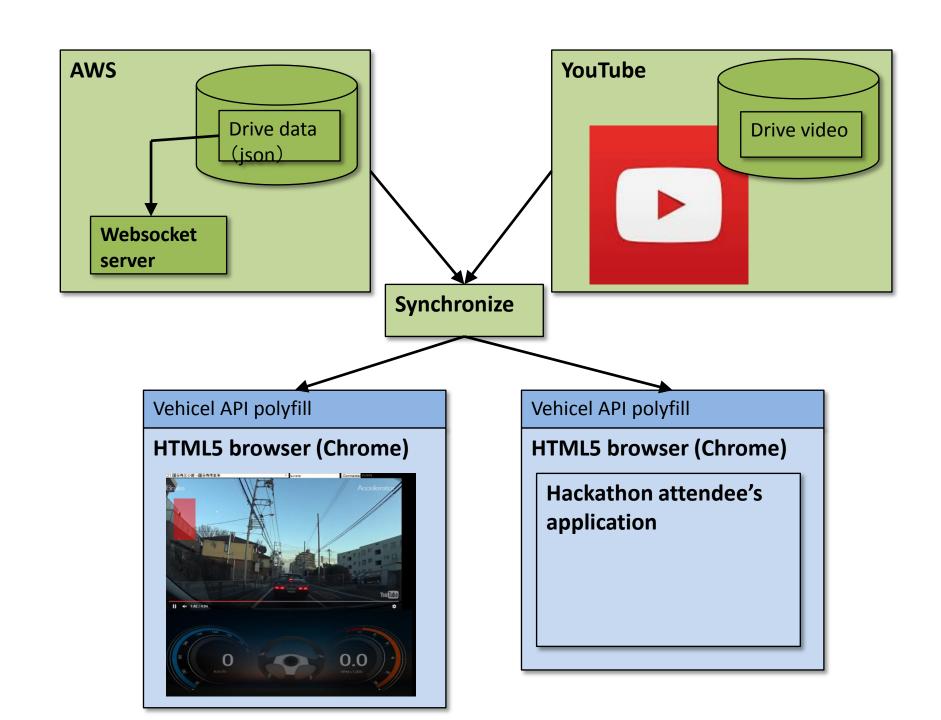
- Held on January 30<sup>th</sup>, 31<sup>st</sup>, 2016
- 50+ people
   attended. Tier1
   engineers, Web
   engineers,
   Students, etc.



 Supported by OEMs(ToyotalTC, Nissan, Honda), Tier1s(Alpine, Pioneer, FujitsuTEN), many other companies and MIC(Ministry of Internal Affairs and Communications)

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(Because of security reason, we don't publish this URL. Sorry.)



# Thanks!