

JFTC CPRC Osaka International Symposium

IPRs and Competition Laws in the IoT/Al Era

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Outline



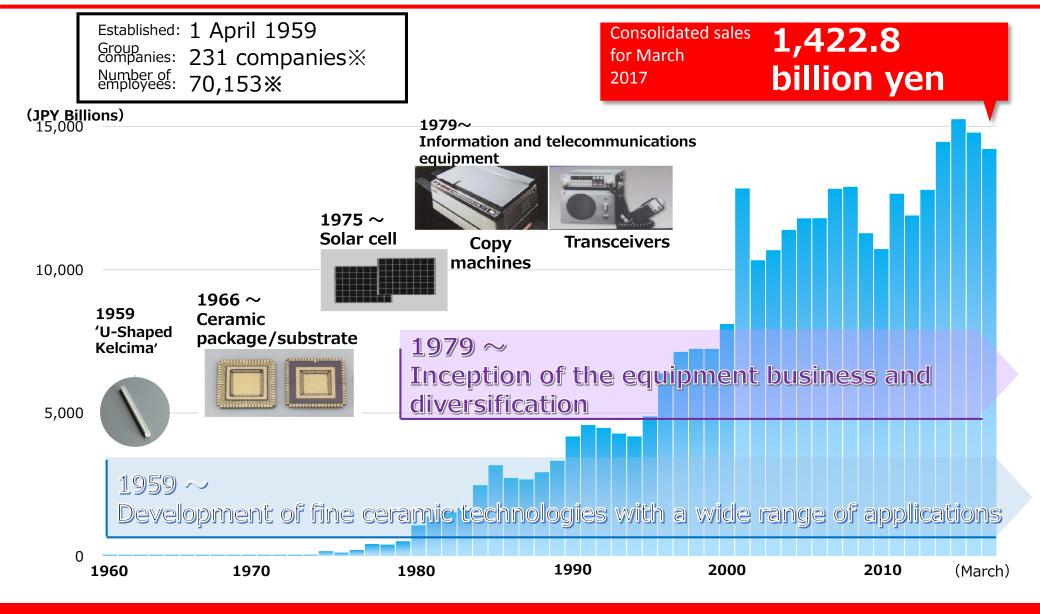
- 1. Our business
- 2. Standards and patents
- 3. Licensing negotiation issues that relate to standard essential patents (SEPs) in the telecom sector
- 4. Licensing negotiation issues that relate to the Internet of Things (IoT) SEPs



1. Our Business

Our Business





Our Business





Parts 50.4%

Living and environment





Other

△1.4%



Document solutions







22.8% Sales 1,422.8 billion March 2017

17.7%

16.9%



Industrial and automotive parts

Communication











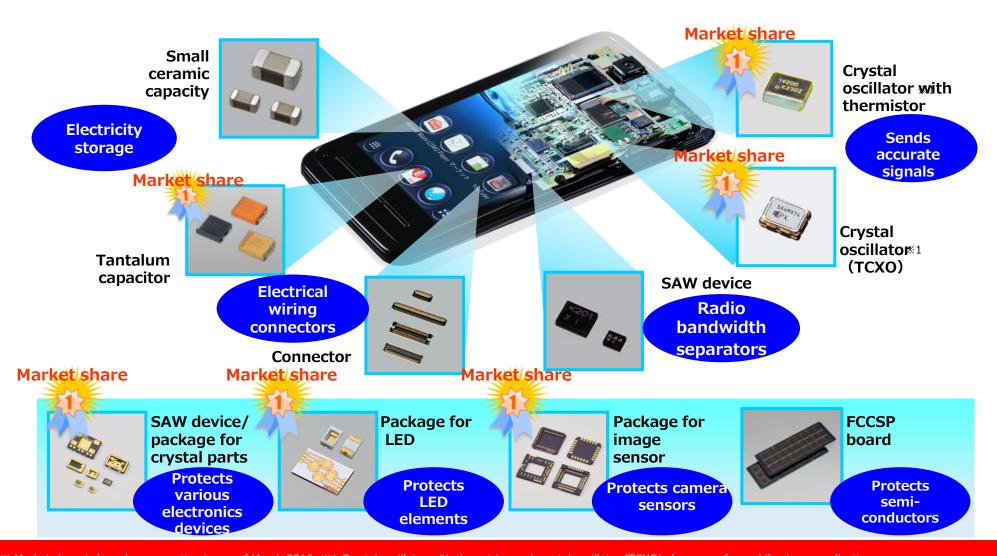




In the Information Communications Market: Smartphone Parts



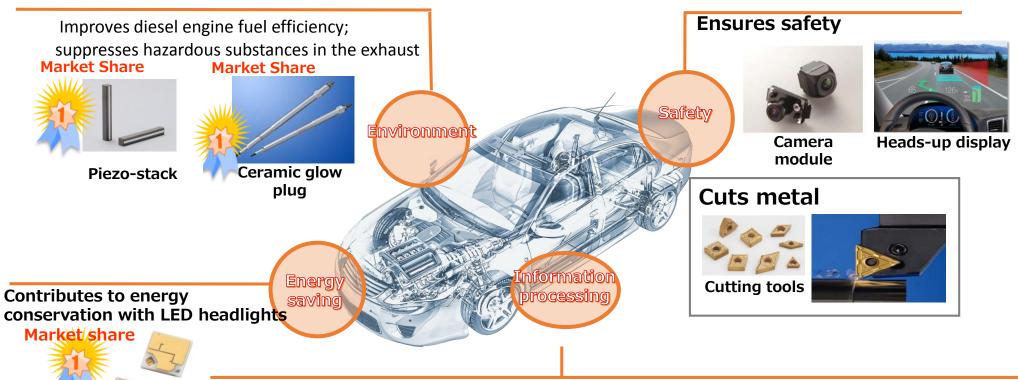
Globally, we are the largest supplier in many product markets



In the Automobile Market

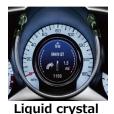


We have the largest global market share in the greater number of markets for automobiles



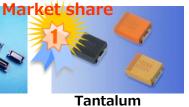
Various parts are meeting automobile needs with more advanced electrical equipment

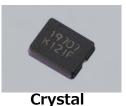




display











Connector

capacity

oscillator Pow

Power device Co

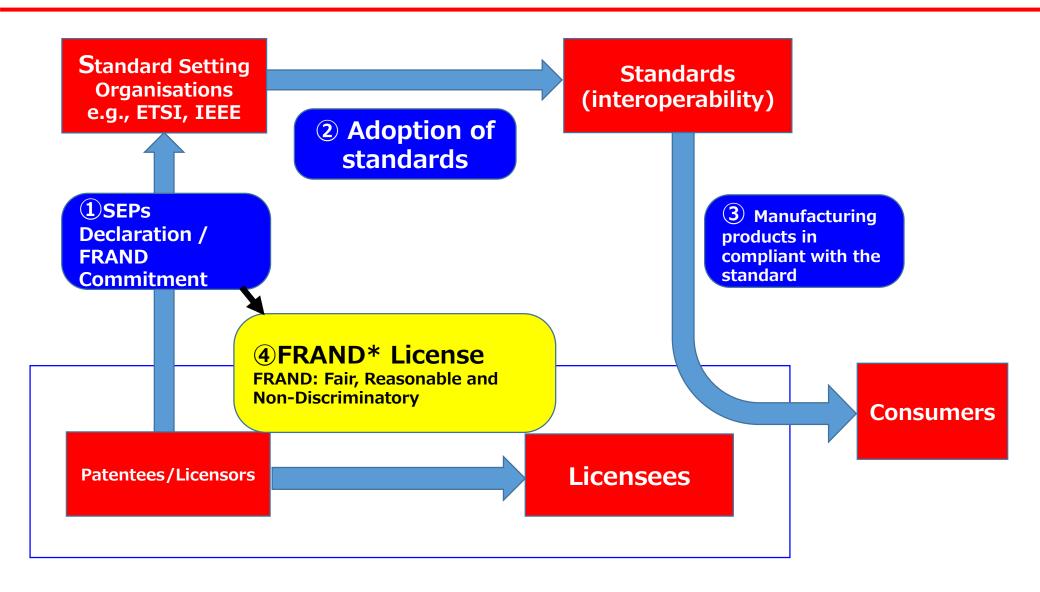
Communication module



2. Standards and patents

Standards and patents





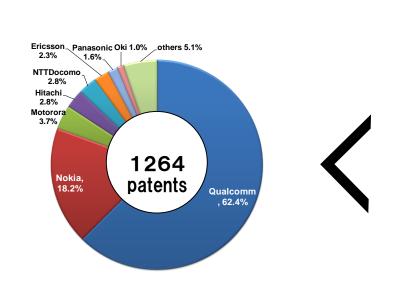


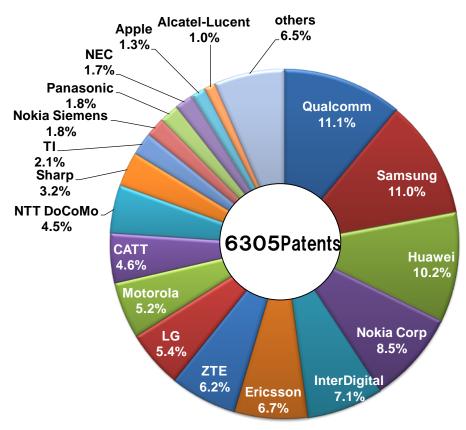
3. Licensing negotiation issues for SEPs in the telecom sector



CDMA2000 (ARIB)

LTE (ETSI)





ARIB IPR Search (As of December 2013)

Cyber Research Laboratory Co., Ltd, 'Study report on the LTE Related ETSI Essential Patent as declared' Ver. 3.0 (June 2013)

Royalty rate for LTE standards



Per the current case law, the royalty rate for LTEs is 6–8% (single digit)



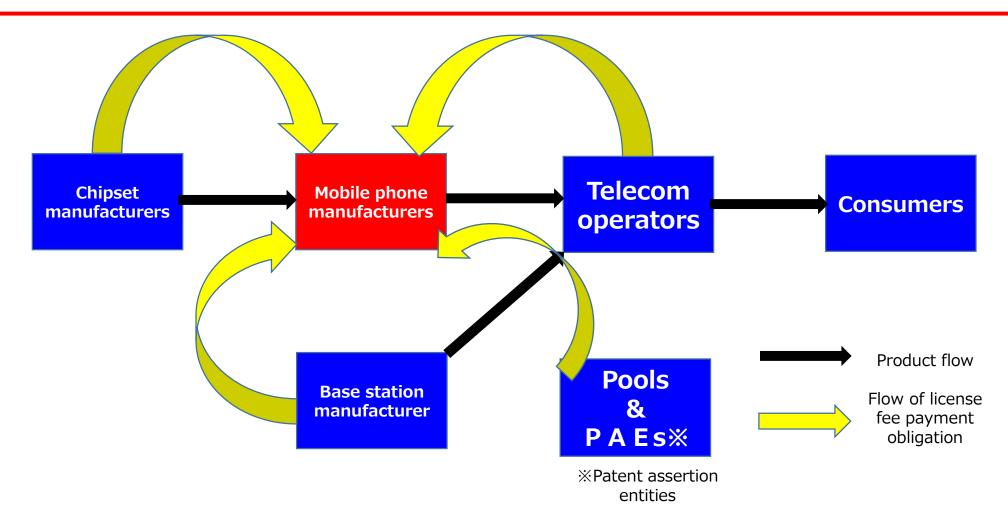
Announced royalty rate by major SEP holders; the aggregated rate is 15% (see chart)

SEP holder	Royalty Rate %
Qualcomm	3.25
Nokia	1.5
Nokia-Siemens	0.8
Ericsson	1.5
Nortel	1.0
Huawei	1.5
ZTE	1.0
Motorola	2.25
Alcatel-Lucent	2.0

Source: les Nouvelles (September 2010) Royalty Rates And Licensing Strategies for Essential Patents on LTE (4G) Telecommunication Standards

License fee burden





The number of mobile phone manufacturers in Japan decreased from 11 companies in 2000 to 3 companies

License negotiation: Behind the scenes **K**KYDICERE



Inadequate license offer from SEP owners (lack of transparency)

1) Insufficient evidence to prove infringement

- •Standard setting organisations (SSOs) evaluate neither the essentiality nor the importance of the FRAND declared patents.
 - •SEPs may cover both mandatory and optional.
 - •SEP owners often fail to prove that the product at issue infringes on the patents at issue.

2) Lack of concrete explanation for the royalty rate request

•SEP owners refuse to offer concrete detailed explanation and reason for why they require the royalty rate; they merely state that other licensees have accepted it.

3) Duplicate licensing request for patents that were originally derived from the same owner

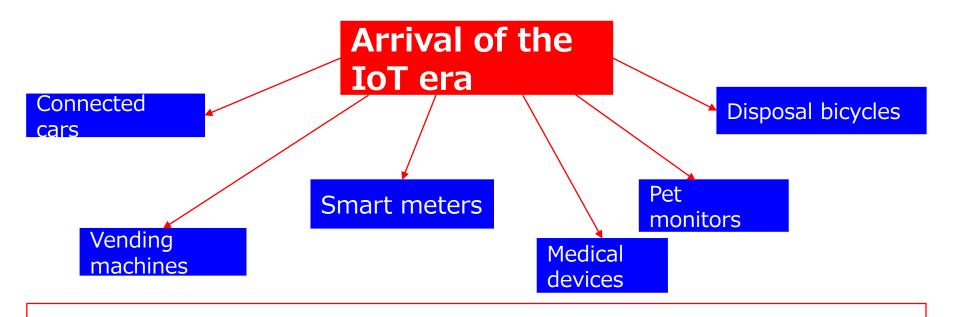
- •Patent pools to which the SEP owners entrust licensing businesses request a license fee payment.
- •Additionally, the SEP owner himself/herself requests a license fee payment.
- •Some of the SEPs are owned by various PAEs, and they all request a license fee payment.



4. Licensing negotiation issues related to the IoT SEPs

Issues in the era of the IoT





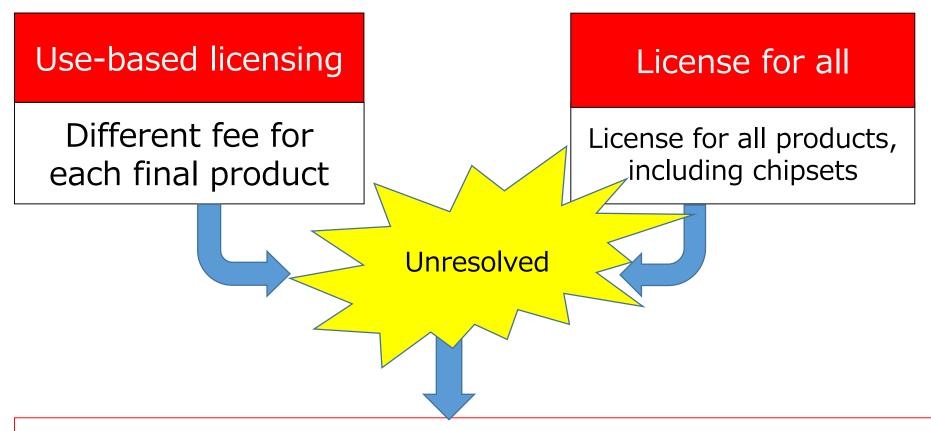
Rapid and widespread for various applications

Issue 1: How much should be charged for the communication standard SEP license?

Issue 2: Who should bear the cost?

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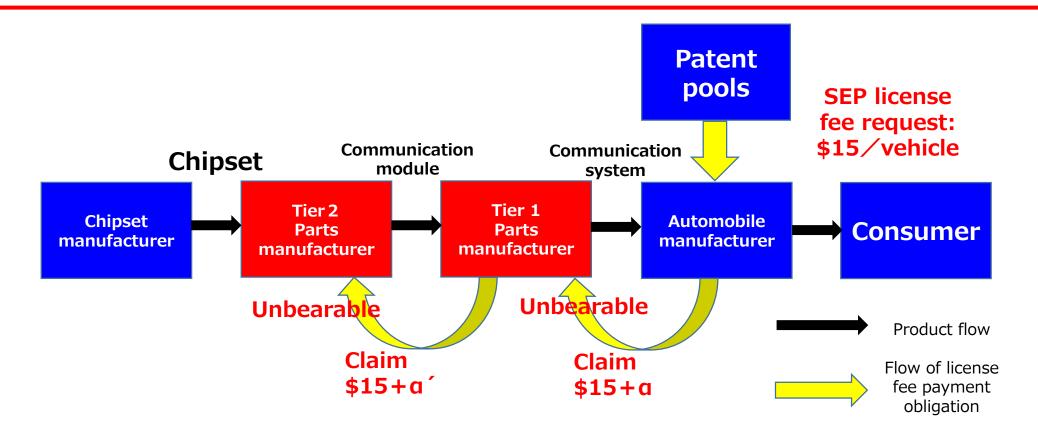




The SEP owner should publish on his/her website a calculated basis for his/her license fee request to avoid confusion.

Issue 2: Who should bear the cost?





A manufacturer in the supply chain cannot bear the license burden alone because it would risk the continuity of its business. There should be an upper limit for the royalty rate, which should be calculated based on each company's sales of the licensed product