

# ISO 조직 및 표준화 프로세스 개요

## TC22 및 TC204 소개

---

2019. 08. 28

(사)한국첨단자동차기술협회

백 재 원



국가기술표준원



## 목차

---



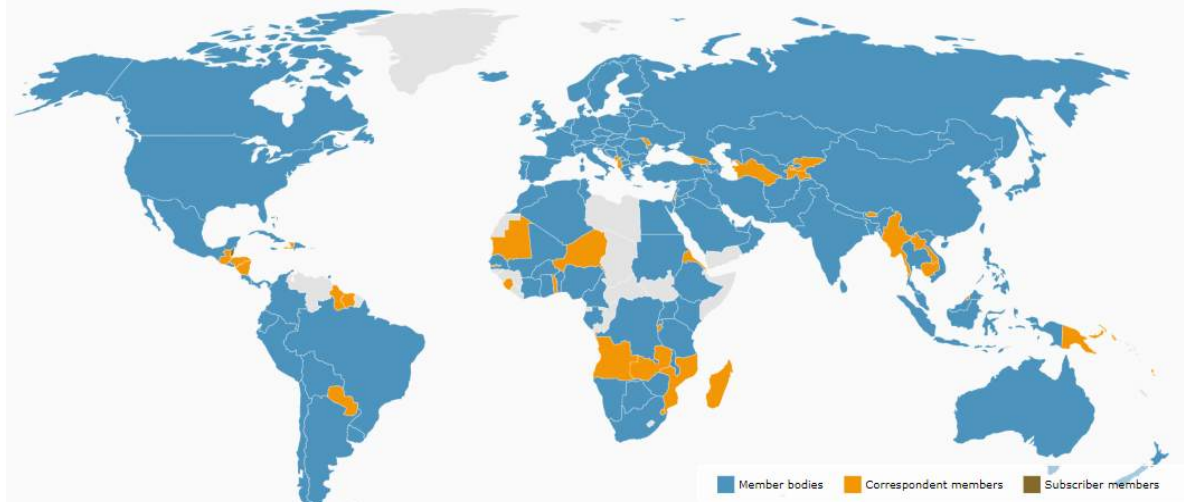
국가기술표준원

1. ISO 및 조직 소개
2. 자율주행차 관련 표준 소개
3. 표준화 프로세스 소개

# ISO 및 조직 소개



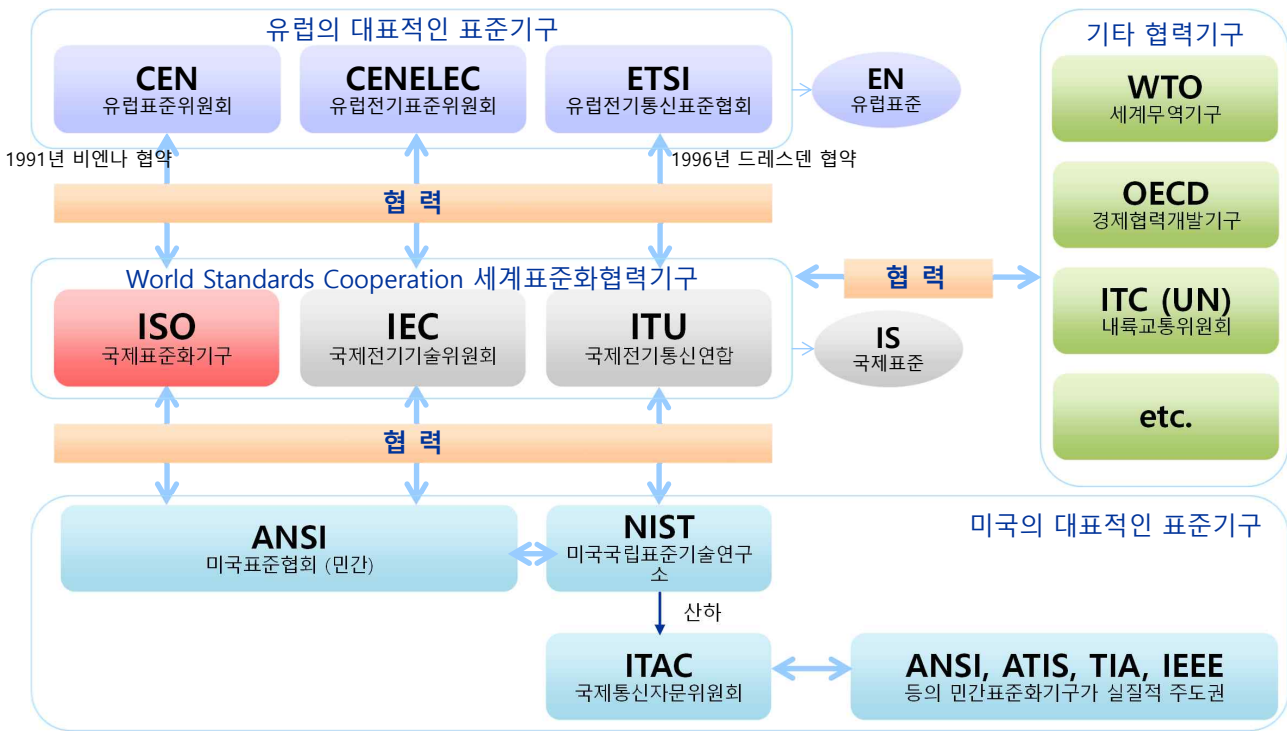
## ISO 및 조직 소개



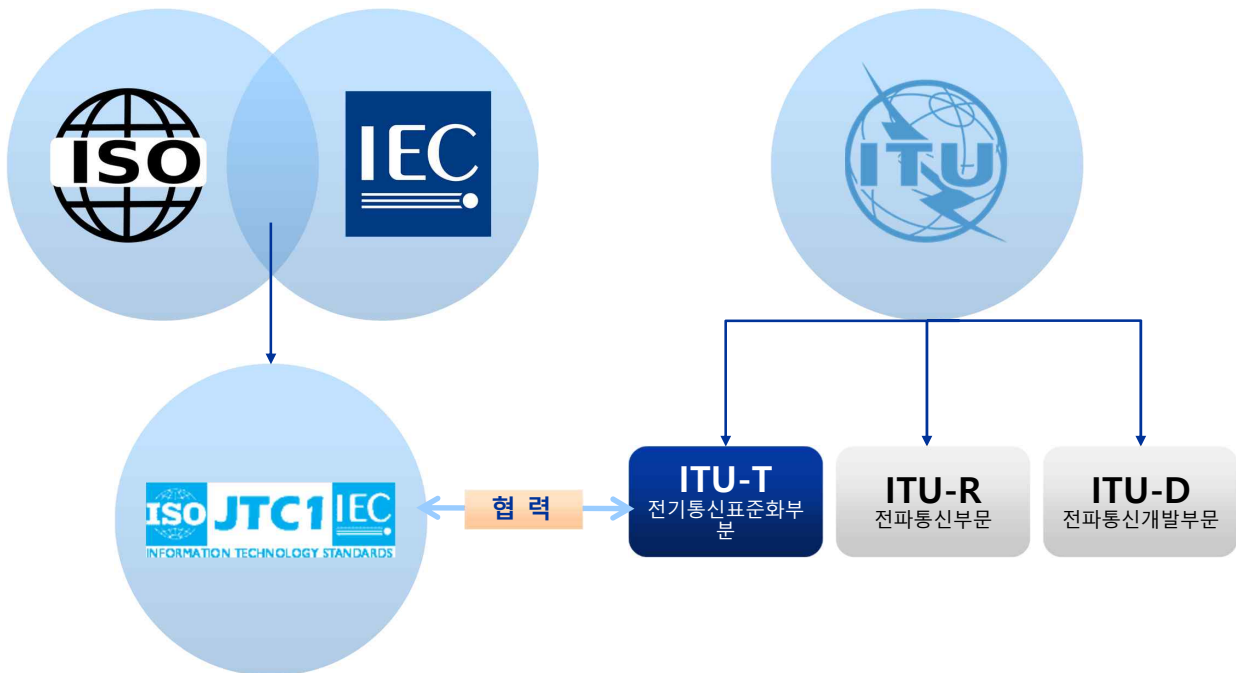
Type	회의 참여 (incl. 투표권)	회의 참관	ISO 규격 판매	국가표준으로 준용	ISO 최신소식 업데이트
<b>Full members (member bodies)</b>	O	O	O	O	O
Correspondent members	X	O	O	O	O
Subscriber members	X	X	X	X	O

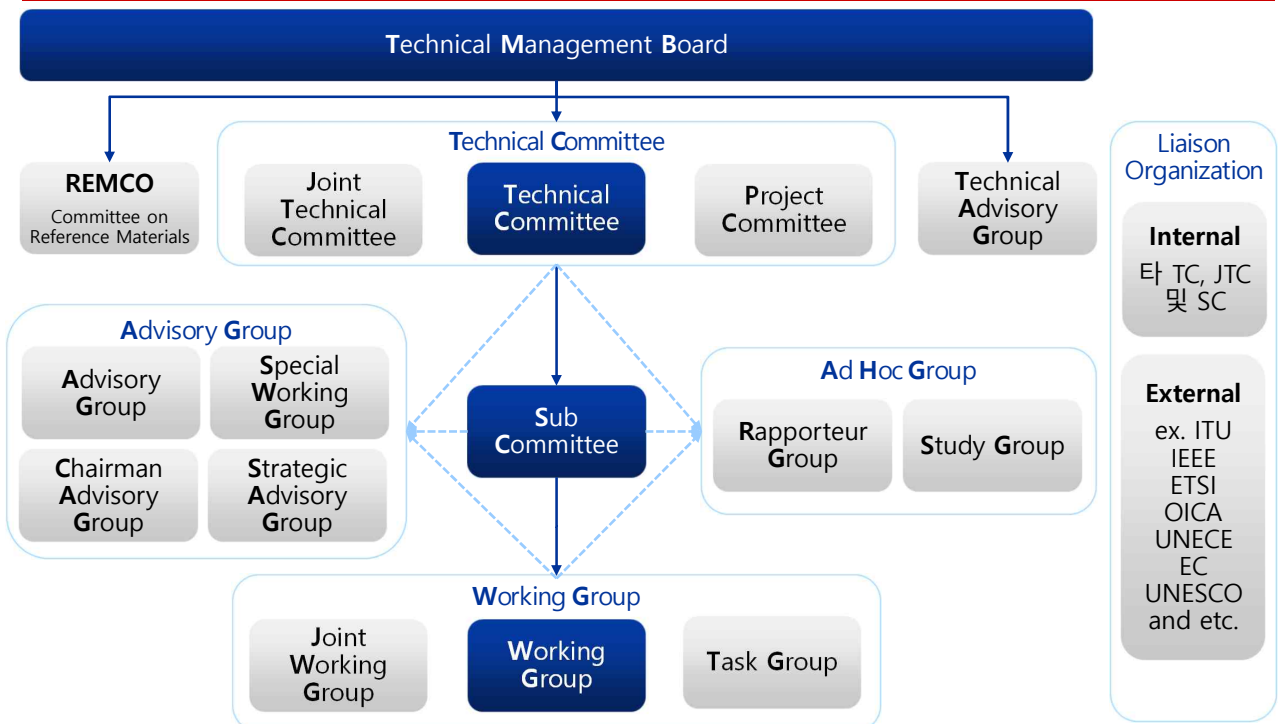
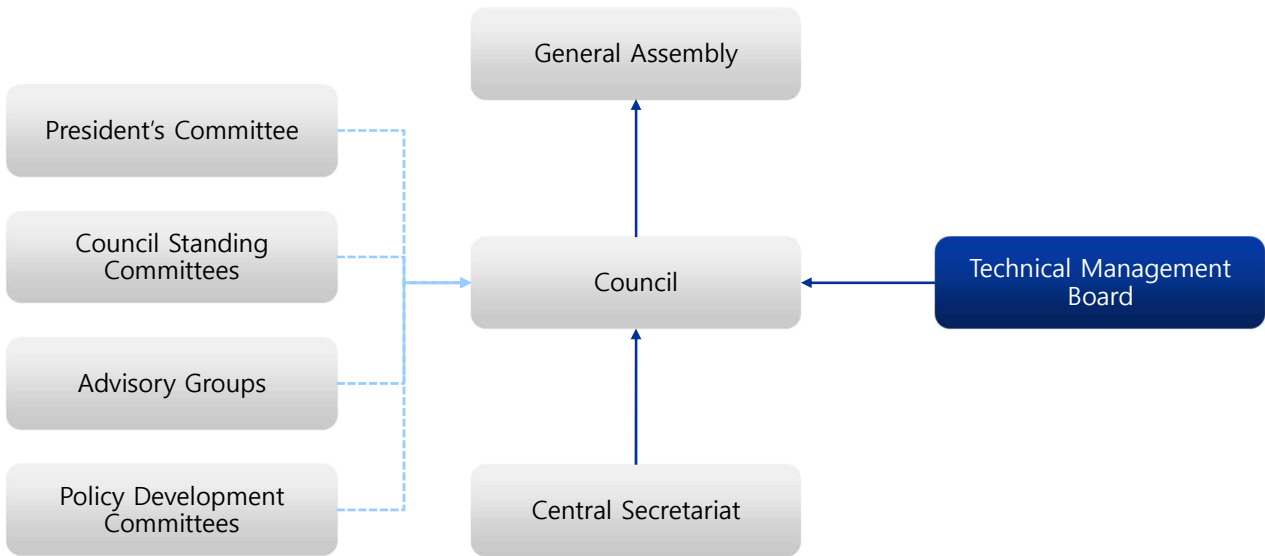


# ISO 및 조직 소개 - 표준화기구



# ISO 및 조직 소개 - 표준화기구

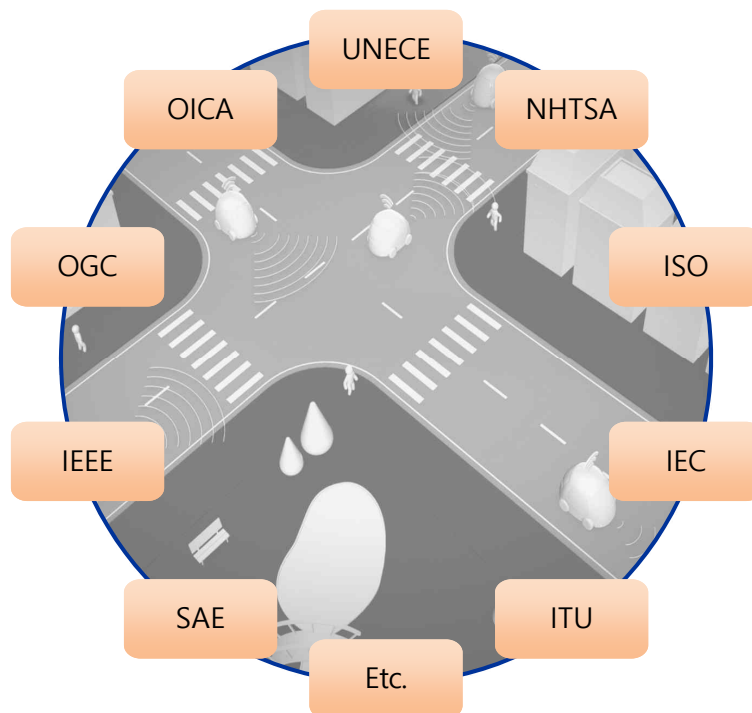


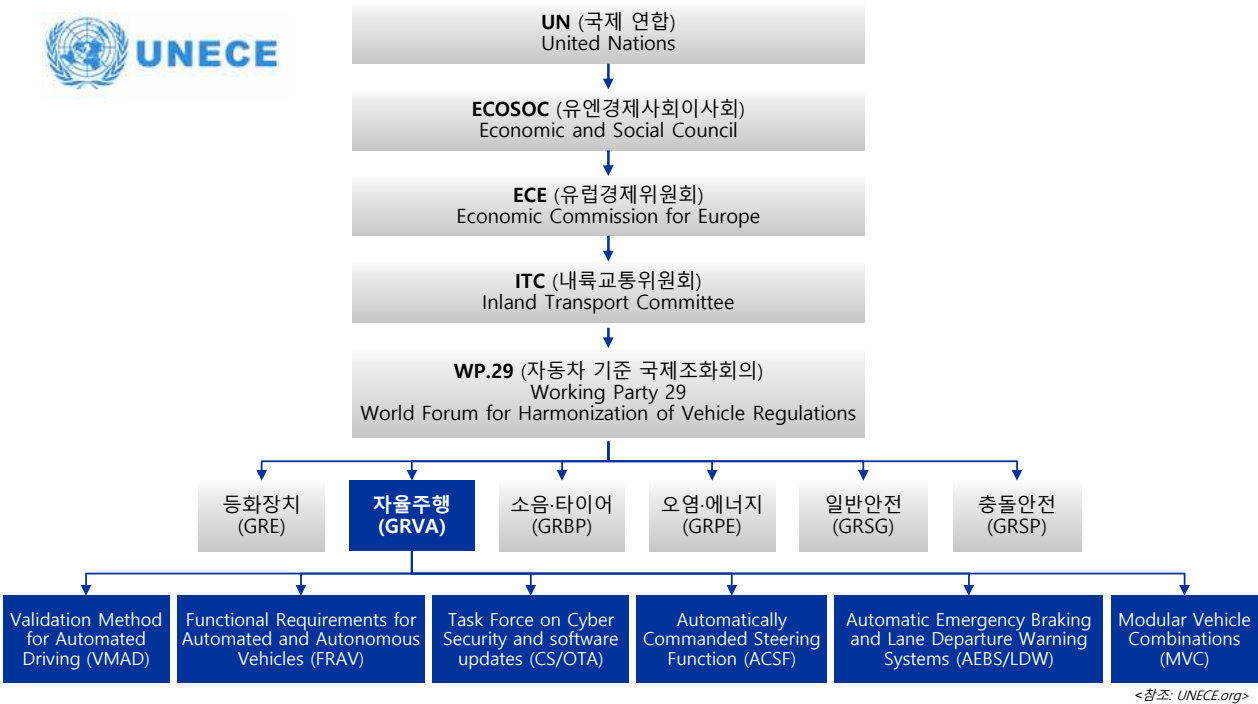


# 자율주행차 관련 위원회 및 표준 소개



## 자율주행차 관련 표준 소개 - 관련 기구





## 자율주행차 관련 표준 소개 – ISO/TC 22

### ■ ISO/TC 22 : Road Vehicles (도로 차량)

REFERENCE	TITLE
ISO/TC 22/SC 31	Data communication (데이터 통신)
ISO/TC 22/SC 32	Electrical and electronic components and general system aspects (전기/전자 부품 및 시스템 분야)
ISO/TC 22/SC 33	Vehicle dynamics and chassis components (차량동력 및 샤시 구성요소)
ISO/TC 22/SC 34	Propulsion, powertrain and powertrain fluids (추진력, 파워트레인 및 파워트레인 오일)
ISO/TC 22/SC 35	Lighting and visibility (조명 및 가시성)
ISO/TC 22/SC 36	Safety and impact testing (안전 및 충격 시험)
ISO/TC 22/SC 37	Electrically propelled vehicles (전동식 추진 차량)
ISO/TC 22/SC 38	Motorcycles and mopeds (오토바이, 전동자전거)
ISO/TC 22/SC 39	Ergonomics (인간공학)
ISO/TC 22/SC 40	Specific aspects for light and heavy commercial vehicles, busses and trailers (경량 및 중형 상용차, 버스 및 트레일러의 특정 분야)
ISO/TC 22/SC 41	Specific aspects for gaseous fuels (가스 연료의 특정 측면)



## ■ ISO/TC 204 : Intelligent transport systems (지능형교통시스템)

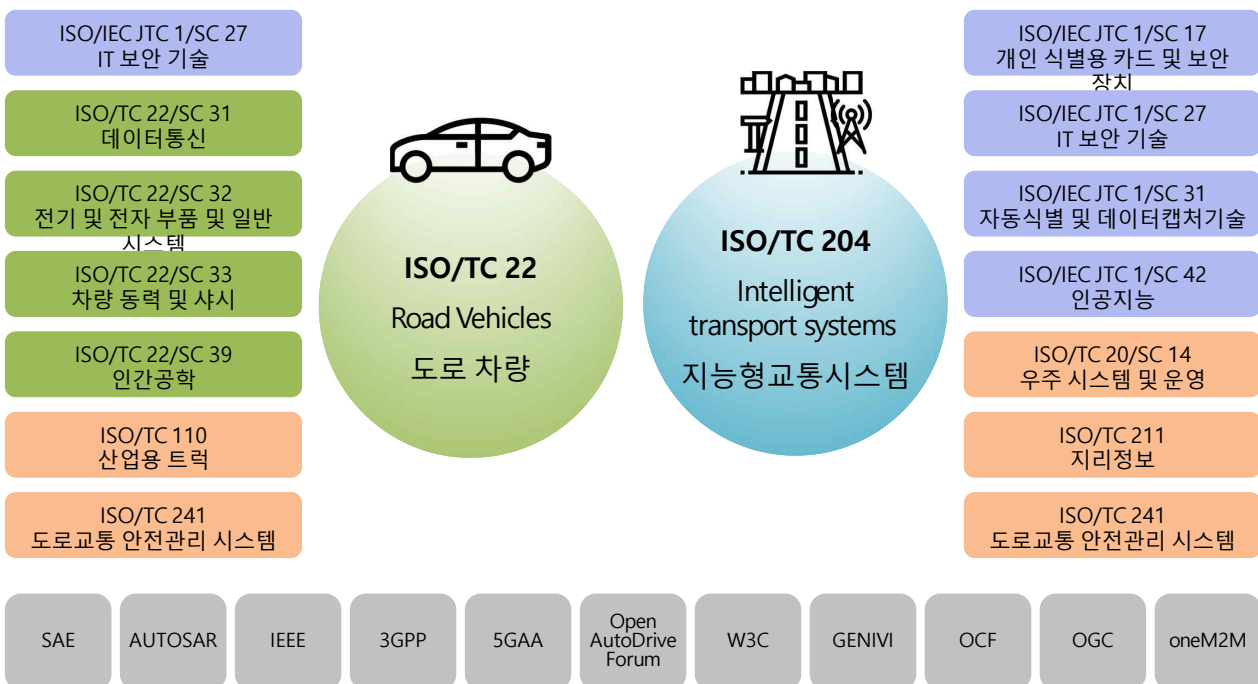
REFERENCE	TITLE
ISO/TC 204/WG 1	Architecture (아키텍처)
ISO/TC 204/WG 3	ITS database technology (ITS 데이터베이스 기술)
ISO/TC 204/WG 5	Fee and toll collection (전자지불)
ISO/TC 204/WG 7	General fleet management and commercial/freight (화물차량 관리)
ISO/TC 204/WG 8	Public transport/emergency (대중교통)
ISO/TC 204/WG 9	Integrated transport information, management and control (통합교통정보, 관리, 제어)
ISO/TC 204/WG 10	Traveller information systems (여행자정보제공 시스템)
ISO/TC 204/WG 14	Vehicle/roadway warning and control systems (차량 및 도로 경고, 제어 시스템)
ISO/TC 204/WG 16	Communications (통신)
ISO/TC 204/WG 17	Nomadic Devices in ITS Systems (ITS시스템의 운항장치)
ISO/TC 204/WG 18	Cooperative systems (협동 시스템/C-ITS)
ISO/TC 204/WG 19	Mobility integration

2019.08 기준



page 13

# 자율주행차 관련 표준 소개

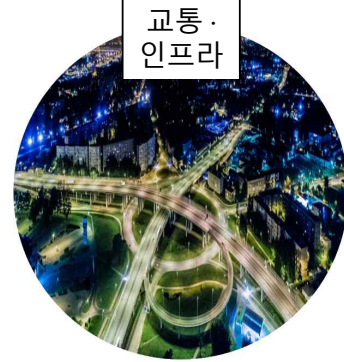


page 14

# 자율주행차 관련 표준 소개



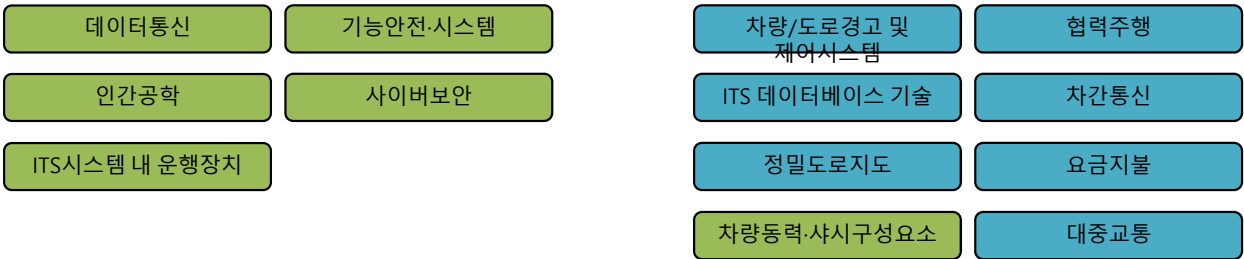
차량



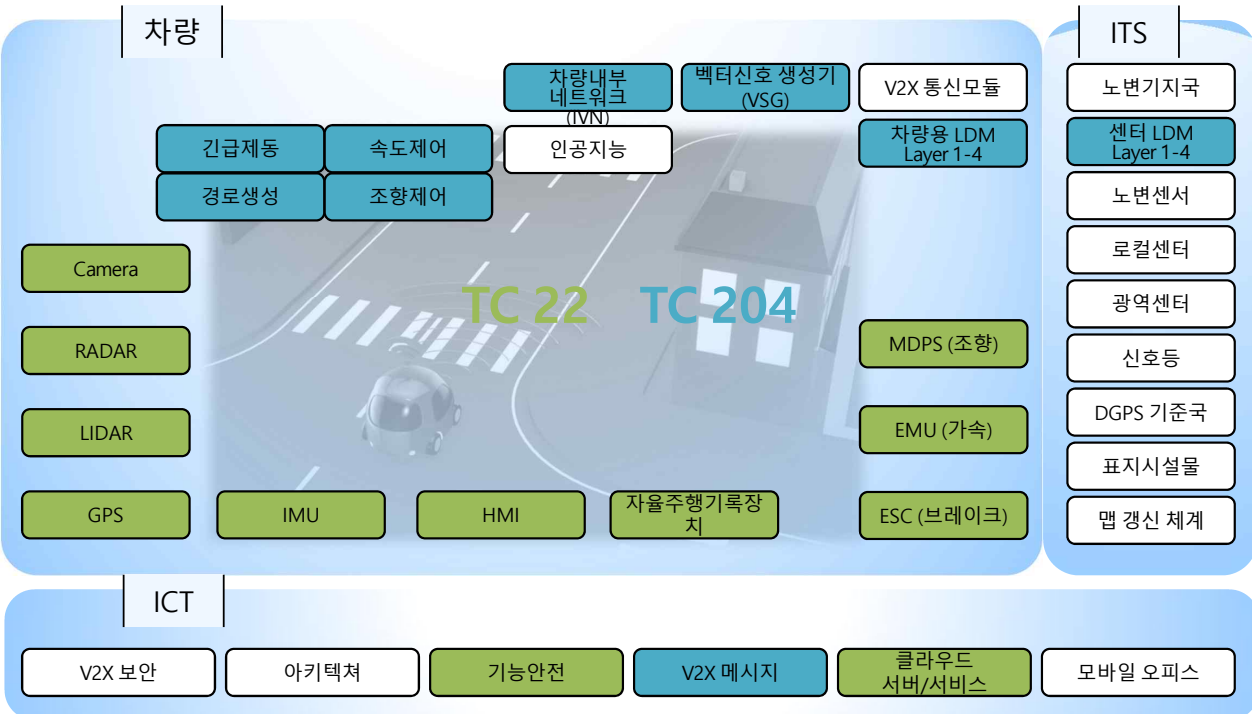
교통·인프라

## TC 22 TC 204

### 차량 제어



# 자율주행차 관련 표준 소개





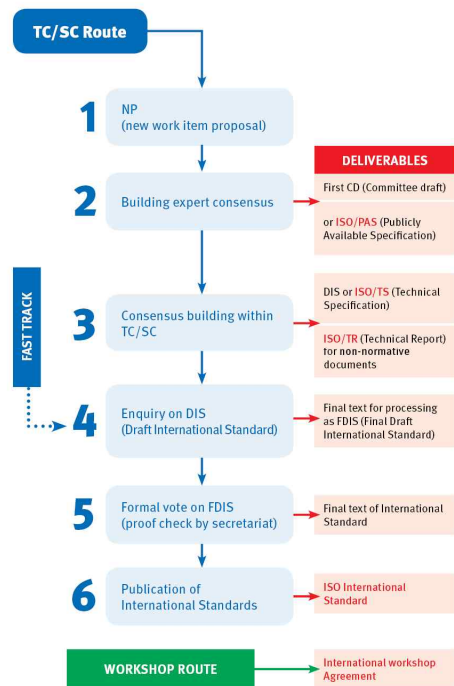
# 표준화 프로세스 소개



## 표준화 프로세스 소개

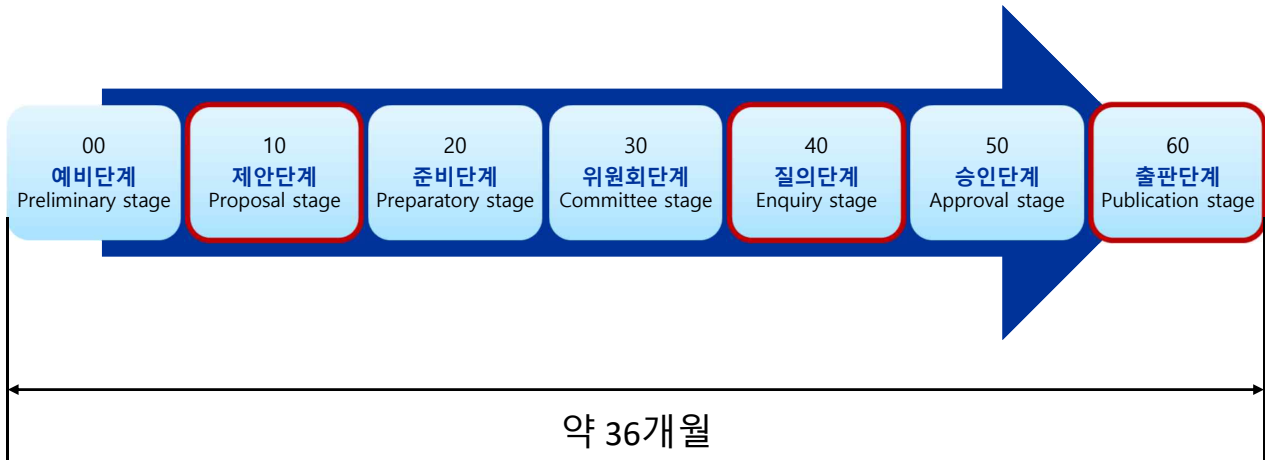
International harmonized stage codes

STAGE	SUBSTAGE		90 Decision					
	00 Registration	20 Start of main action	60 Completion of main action	92 Repeat an earlier phase	93 Repeat current phase	98 Abandon	99 Proceed	
00 Preliminary stage	00.00 Proposal for new project received	00.20 Proposal for new project under review	00.60 Close of review			00.98 Proposal for new project abandoned	00.99 Approval to ballot proposal for new project	
10 Proposal stage	10.00 Proposal for new project registered	10.20 New project ballot initiated	10.60 Close of voting	10.92 Proposal returned to submitter for further definition		10.98 New project rejected	10.99 Approval to New project approved	
20 Preparatory stage	20.00 New project registered in TC/SC work programme	20.20 Working draft (WD) study initiated	20.60 Close of comment period			20.98 Project deleted	20.99 WD approved for registration as CD	
30 Committee stage	30.00 Committee draft (CD) registered	30.20 CD study/ballot initiated	30.60 Close of voting/comment period	30.92 CD referred back to Working Group		30.98 Project deleted	30.99 CD approved for registration as DIS	
40 Enquiry stage	40.00 DIS registered	40.20 DIS ballot initiated 12 weeks	40.60 Close of voting	40.92 Full report circulated; DIS referred back to TC or SC	40.93 Full report circulated; decision for new DIS ballot	40.98 Project deleted	40.99 Full report circulated; DIS approved for registration as FDIS	
50 Approval stage	50.00 Final text received or FDIS registered for formal approval	50.20 Proof sent to secretariat or FDIS ballot initiated 8 weeks	50.60 Close of voting; Proof returned by secretariat	50.92 FDIS or proof referred back to TC or SC		50.98 Project deleted	50.99 FDIS or proof approved for publication	
60 Publication stage	60.00 International Standard under publication	60.20 International Standard under periodical review	60.60 International Standard published					
90 Review stage		90.20 International Standard under review	90.60 Close of review	90.92 International Standard to be revised	90.93 International Standard confirmed		90.99 Withdrawal of International Standard proposed by TC or SC	
95 Withdrawal stage		95.20 Withdrawal ballot initiated	95.60 Close of voting	95.92 Decision not to withdraw International Standard			95.99 Withdrawal of International Standard	



# 표준화 프로세스 소개

\*굵은 테두리(10,40,60)는 필수 단계



# 표준화 프로세스 소개

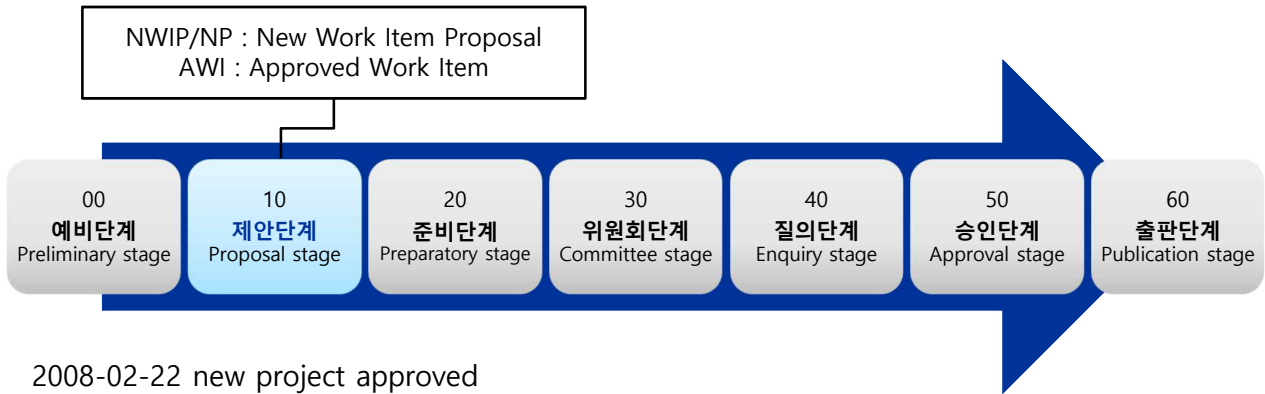


도로차량의 기능안전 관련 표준 제정 필요성 대두

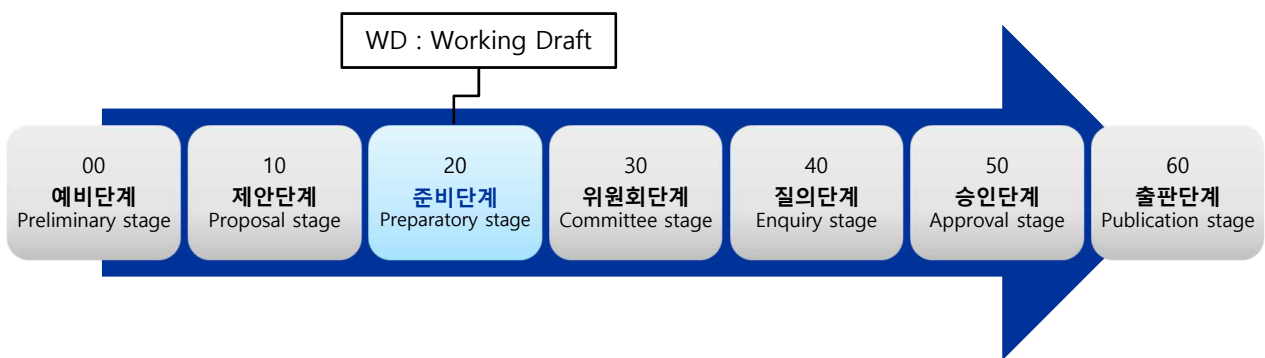
ISO 26262-1:2011

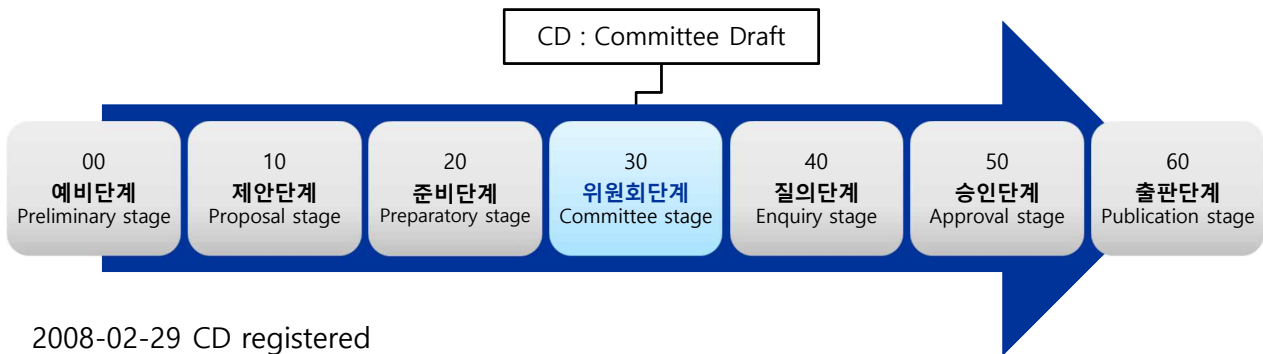
Road vehicles -- Functional safety

# 표준화 프로세스 소개

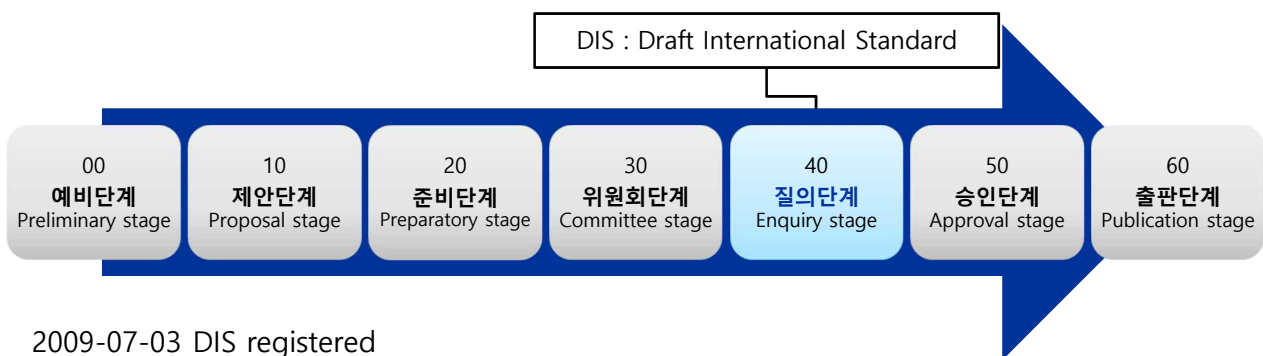


# 표준화 프로세스 소개

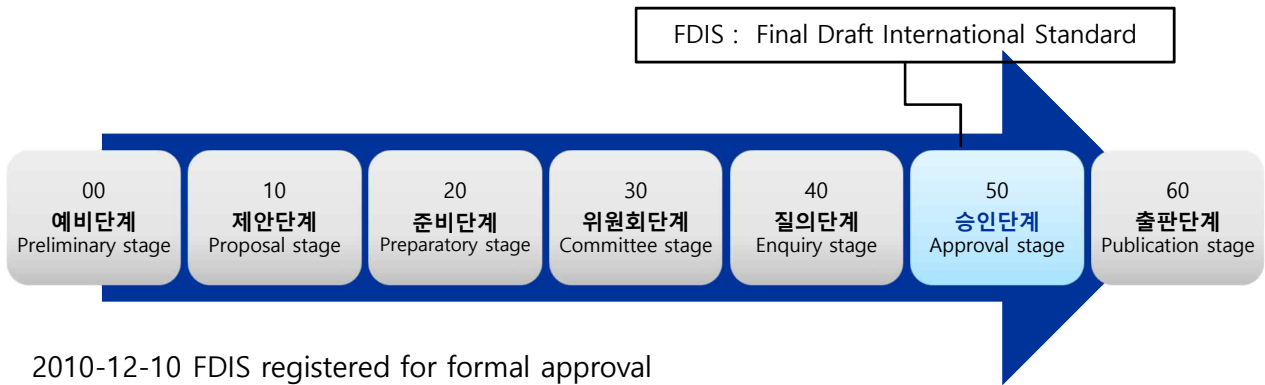




- 2008-02-29 CD registered
- 2008-02-29 CD ballot initiated
- 2008-09-17 Close of voting
- 2009-06-30 CD approved for registration as DIS



- 2009-07-03 DIS registered
- 2009-07-08 DIS ballot initiated
- 2009-12-10 Close of voting
- 2010-12-06 DIS approved for registration as FDIS



2010-12-10 FDIS registered for formal approval

2011-04-27 FDIS ballot initiated

2011-06-29 Close of voting



2011-06-29 IS under publication

2011-11-14 IS published



# 표준화 프로세스 소개

6 stages	Action	Balloting time	Default path	Shortest path
<b>1</b> Proposal NP	Proposal to start a new project	<ul style="list-style-type: none"> <li>3-month ballot by default</li> <li>2-month ballot possible</li> <li>TC/SC resolution for revision &amp; amendments</li> </ul>	NP	NP Straight to DIS
<b>2</b> Preparatory WD *	Expert consensus within working group		WD	
<b>3</b> Committee CD *	Committee consensus	<ul style="list-style-type: none"> <li>2-month ballot by default</li> <li>3 or 4 month vote possible</li> <li>Can be skipped</li> </ul>	CD	
<b>4</b> Enquiry DIS	National consensus	<ul style="list-style-type: none"> <li>2-month translation</li> <li>3-month ballot</li> </ul>	24 months to reach DIS	12 months to reach DIS
<b>5</b> Approval FDIS *	YES or NO vote	<ul style="list-style-type: none"> <li>Skipped by default</li> <li>Can be introduced</li> <li>2-month ballot</li> </ul>	FDIS	
<b>6</b> Publication	ISO International Standard		Up to 36 months IS	Down to 9 months IS

## 감사합니다