

New products generation

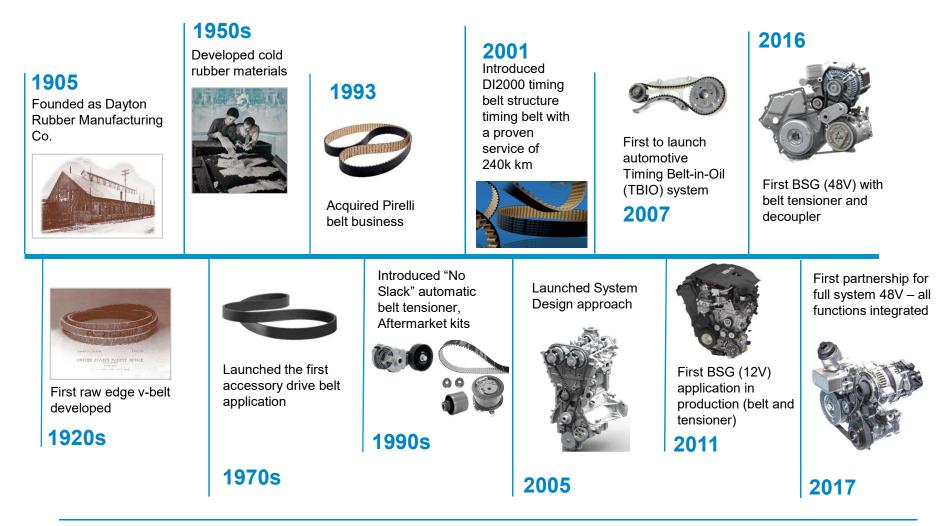
2018, February 9th

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Our History

More than 110 years of innovation and 4,500 employees globally

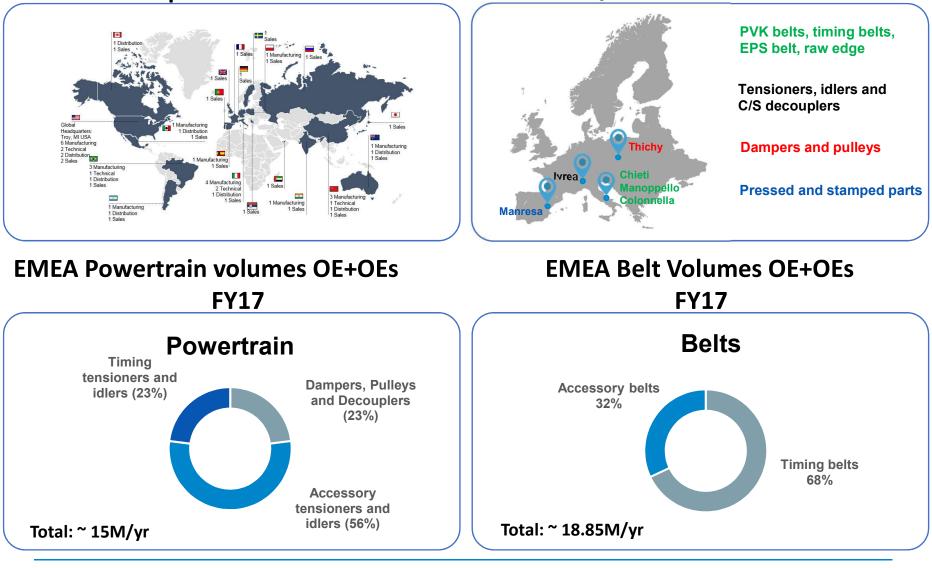


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Overview

Global Footprint



EMEA production facilities

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Research and Development Overview

United States Roseville, MI Springdale, AR Brazil Contention Sao Paolo Laly Chieti Ivrea Laly Chieti Manesar

Global RD&E Footprint

Innovative solution & processes

Technology Platforms Based On:

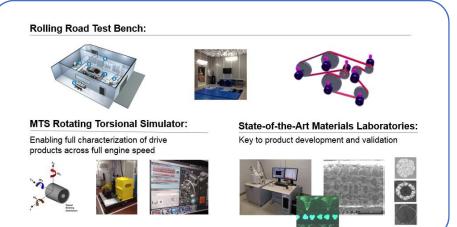
- Strong intellectual property
- Customer recognized value
 Sustainable competitive advant
- Sustainable competitive advantage
 Focused and aligned resources
- Standardized product platforms to accelerate replication globally

MORE THAN
260
PATENTED INVENTIONS

Technology Lifecycle:



Full suite of analytical and product validation tools



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Focusing on Industry Megatrends

Products that improve fuel economy, durability and NVH

Automotive/Light Duty: Fuel Economy

- ACTIVAC[™] Vacuum Generation System
 - Weight savings: 1.1-5.5 lbs.
 - Approx. 0.3% better fuel economy
- DDOS, Damping/Decoupling Overrunning System
 - Can be used on belt start-stop drive

Industrial/Heavy Duty: Durability

- Industrial Tensioners
- Dayco TFL, Tensioner-for-Life
- Accessory Drive Belts
 - Low slippage, reduced NVH

Dayco's Solutions for Vehicle Electrification



BSG 48V Mild Hybrids Dayco Accessory Drive & Aramid Cord Belts, Dual-art Tensioners, DDCS Crankshaft Decouplers



Electric Power Steering Dayco EPS Belts



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Why the new mobility generation?



Demographic trend

World Population (2018 and historical)

View the complete population historical table

Year (July 1)	Population	Yearly % Change	Yearly Change	Median Age	Fertility Rate	Density (P/Km²)	Urban Pop %	Urban Population
2018	7,632,819,325	1.09 %	82,557,224	29.9	2.51	76	54.9 %	4,186,975,665
2017	7,550,262,101	1.12 %	83,297,821	29.9	2.51	76	54.4 %	4,110,778 ,369
2016	7,466,964,280	1.14 %	83,955,460	29.9	2.51	75	54.0 %	4,034,193,153
2015	7,383,008,820	1.19 %	84,967,932	30	2.52	74	53.6 %	3,957,285,013
2010	6,958,169,159	1.24 %	83,201,955	29	2.57	70	51.3 %	3,571,272,167
2005	6,542,159,383	1.26 %	79,430,479	27	2.63	65	48.9 %	3,199,013,076
2000	6,145,006,989	1.33 %	78,706,515	26	2.75	61	46.5 %	2,856,131,072
1995	5,751,474,416	1.53 %	84,106,191	25	3.02	58	44.7 %	2,568,062,984
1990	5,330,943,460	1.81 %	91,432,333	24	3.44	53	42.9 %	2,285,030,904
1985	4,873,781,796	1.80 %	83,074,052	23	3.60	49	41.1 %	2,003,049,795
1980	4,458,411,534	1.79 %	75,864,867	23	3.87	45	39.2 %	1,749,539,272
1975	4,079,087,198	1.97 %	75,701,910	22	4.46	41	37.6 %	1,534,721,238
1970	3,700,577,650	2.07 %	72,196,992	22	4.92	37	36.5 %	1,350,280,789



Demographic trend

World Population Forecast (2020-2050)

View population projections for all years (up to 2100)

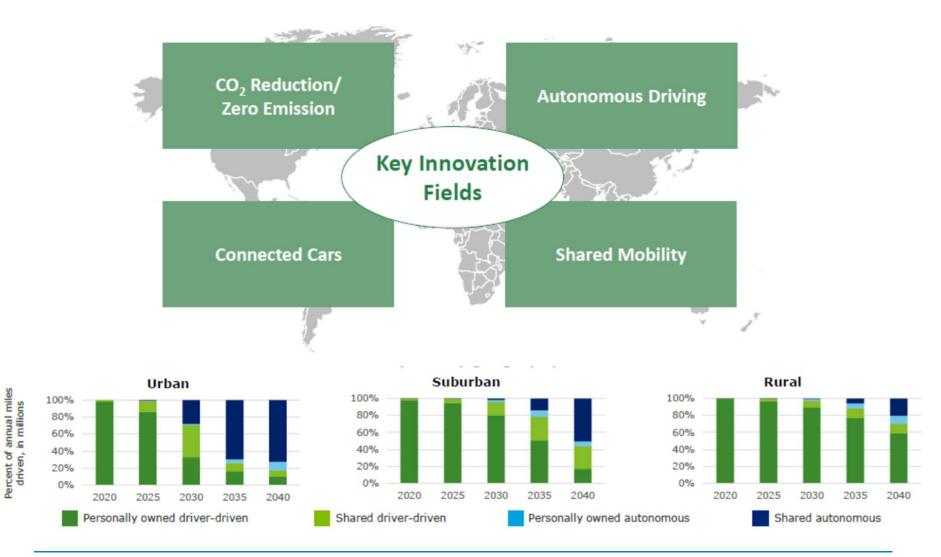
Year (July 1)	Population	Yearly % Change	Yearly Change	Median Age	Fertility Rate	Density (P/Km²)	Urban Pop %	Urban Population
2020	7,795,482,309	1.09 %	82,494,698	31	2.47	78	55.6 %	4,338,014,924
2025	8,185,613,757	0.98 %	78,026,290	32	2.43	82	57.5 %	4,705,773,576
2030	8,551,198,644	0.88 %	73,116,977	33	2.39	86	59.2 %	5,058,158,460
2035	8,892,701,940	0.79 %	68,300,659	34	2.35	89	60.7 %	5,394,234,712
2040	9,210,337,004	0.70 %	63,527,013	35	2.31	92	62.1 %	5,715,413,029
2045	9,504,209,572	0.63 %	58,774,514	35	2.27	95	63.5 %	6,030,924,065
2050	9,771,822,753	0.56 %	53,522,636	36	2.24	98	64.9 %	6,338,611,492



How the automotive will change?

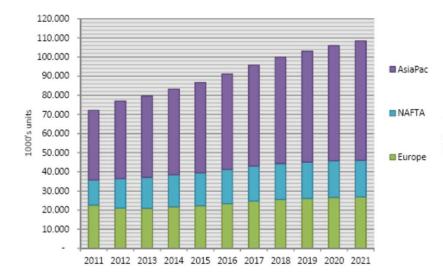


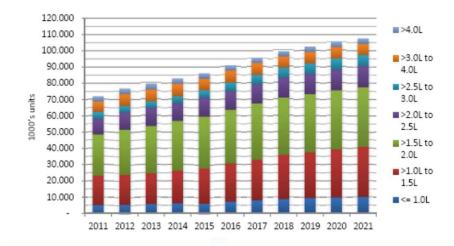
Automotive Megatrend

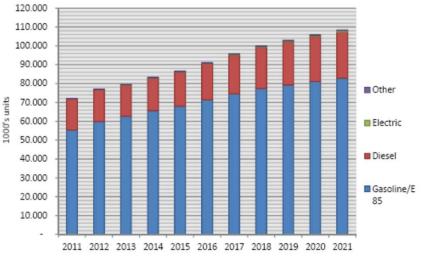


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Automotive Trend





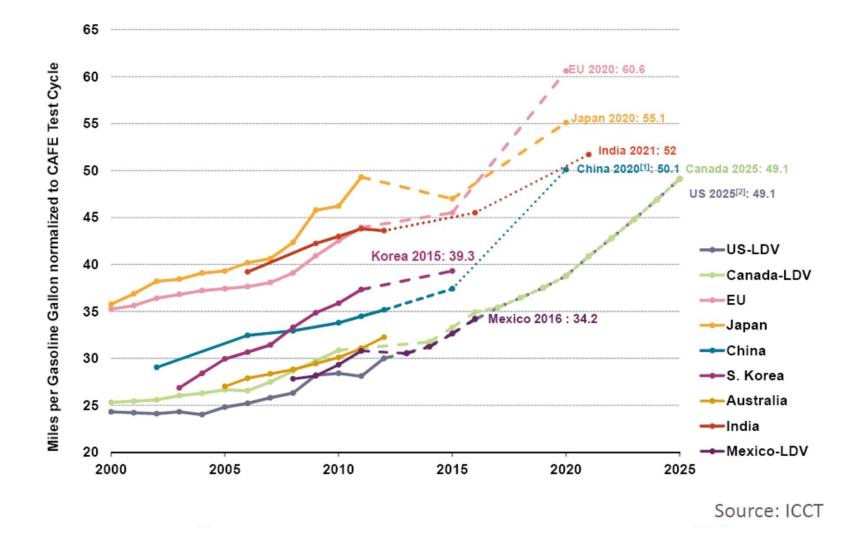


- Primary growth in AsiaPac; China.
- Gasoline still dominates as turbocharging becomes all but standard.
- · Engine downsizing continues with Turbo trend
- Larger engines still present in higher end vehicles, but minimal growth is expected.

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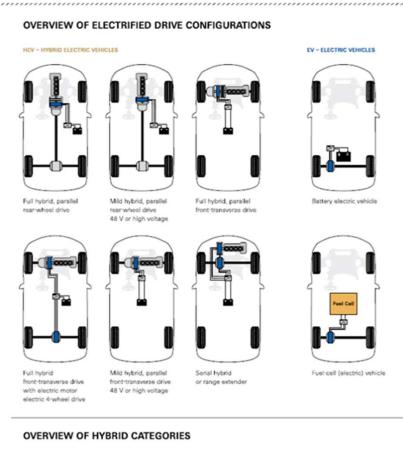


Fuel Economy Targets - LDV





Vision of New Technologies



Hybrid categories	Micro	Mild 48V	Full (HEV)	Plug-in (PHEV)
Main functions	Start/stop	Start/stop	Start/stop	Start/stop
	(Soost mode)	Boost mode	Boost mode	Boost mode
	(Recuperation)	Recuperation	Recuperation	Recuperation
		(Electric maneuvering)	Limited electric driving	Electric driving
			Sailing	Sailing
Max. performance level	3-5 kW	10-15 kW	20-50 kW	75-120 kW

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How the engine will change

- Downsizing of engine
- Overperformances of engine
- Diesel -> Gasoline
- Turbocharged

How the e-mode coming

- Electrification of the engine
 - BSG technology
 - Electrification of gearbox
- Electrification of the car
 - Electrification of the axles

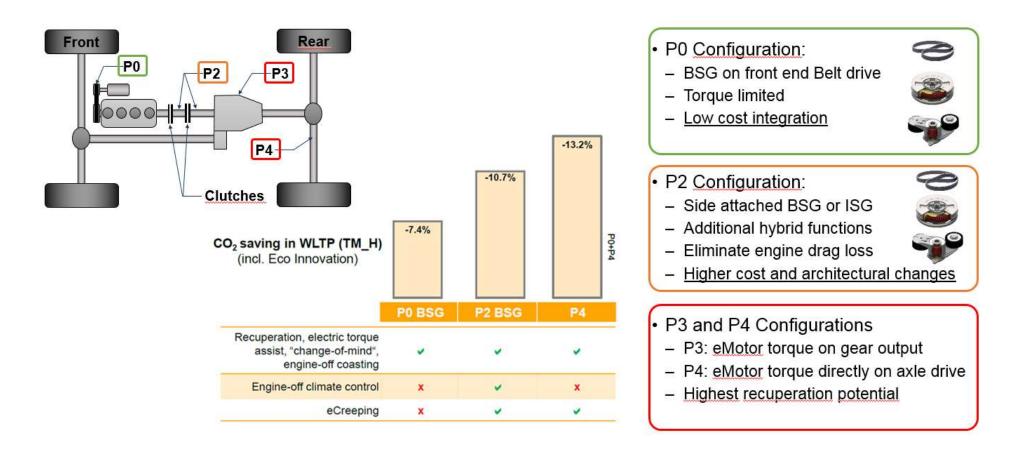
How Dayco will change

- FEAD
 - BSG System
 - Decoupling system
- Primary
 - New Belt in Oil technologies



Electrification Steps at 48Volts

Different Hybrid vehicles architectures

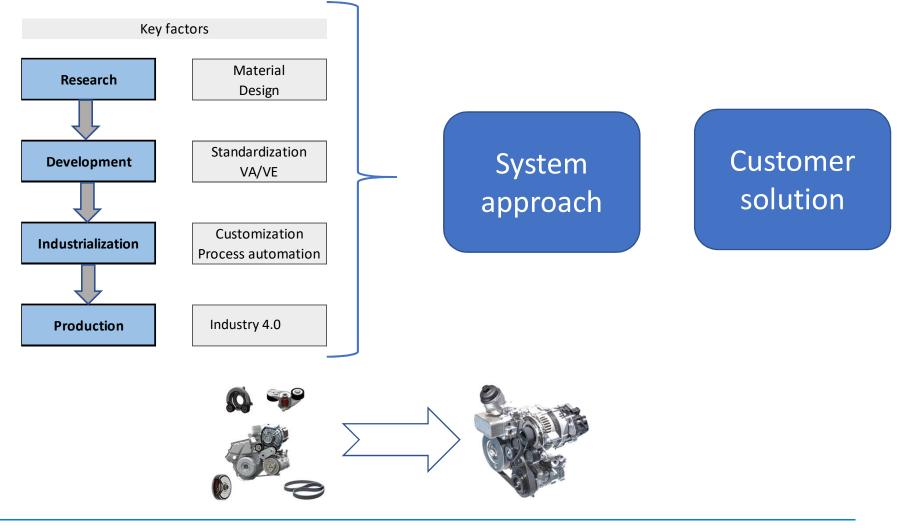




What we need to do?



High value added -> System Supplier Approach



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Two roles -> one mission



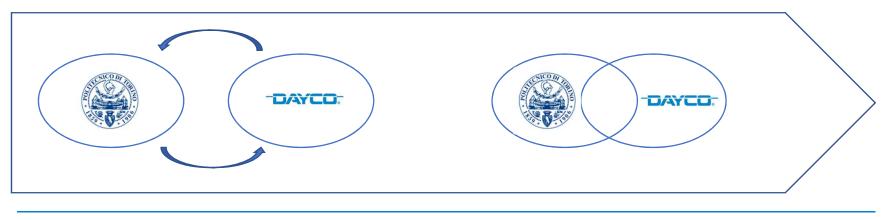


Researching new material and design

Testing new solutions and applications

Translating new idea to product portfolio

Creating new solution for the market



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DAYCO. MOVE FORWARD. ALWAYS.™ "Coming together is a beginning Keeping together is progress Working together is success"

Henry Ford

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MOVE FORWARD. ALWAYS.™

Thank you

For more information, visit www.dayco.com

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