



### Q1 2018 Results

**April 27, 2018** 

#### **Forward Looking Statements**

This presentation contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts. These statements include projections and estimates and their underlying assumptions, statements regarding plans, objectives, intentions and expectations with respect to future financial results, events, operations, services, product development and potential, and statements regarding future performance. Forward-looking statements are generally identified by the words "expects", "anticipates", "believes", "intends", "estimates", "plans" and similar expressions. Although Sanofi's management believes that the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Sanofi, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include among other things, the uncertainties inherent in research and development, future clinical data and analysis, including post marketing, decisions by regulatory authorities, such as the FDA or the EMA, regarding whether and when to approve any drug, device or biological application that may be filed for any such product candidates as well as their decisions regarding labelling and other matters that could affect the availability or commercial potential of such product candidates, the absence of guarantee that the product candidates if approved will be commercially successful, the future approval and commercial success of therapeutic alternatives, Sanofi's ability to benefit from external growth opportunities, to complete related transactions and/or obtain regulatory clearances, risks associated with intellectual property and any related pending or future litigation and the ultimate outcome of such litigation, trends in exchange rates and prevailing interest rates, volatile economic conditions, the impact of cost containment initiatives and subsequent changes thereto, the average number of shares outstanding as well as those discussed or identified in the public filings with the SEC and the AMF made by Sanofi, including those listed under "Risk Factors" and "Cautionary Statement Regarding Forward-Looking Statements" in Sanofi's annual report on Form 20-F for the year ended December 31, 2017. Other than as required by applicable law, Sanofi does not undertake any obligation to update or revise any forward-looking information or statements.



### **Agenda**

#### **Key Highlights**

Olivier Brandicourt - Chief Executive Officer

#### **Financial Results**

Jérôme Contamine - Executive Vice President, Chief Financial Officer

#### **Q&A Session**

- Olivier Charmeil Executive Vice President, General Medicines & Emerging Markets
- Karen Linehan Executive Vice President, Legal Affairs and General Counsel
- David Loew Executive Vice President, Sanofi Pasteur
- Alan Main Executive Vice President, Consumer Healthcare
- Stefan Oelrich Executive Vice President, Diabetes & Cardiovascular
- Bill Sibold Executive Vice President, Sanofi Genzyme
- Elias Zerhouni President, Global R&D

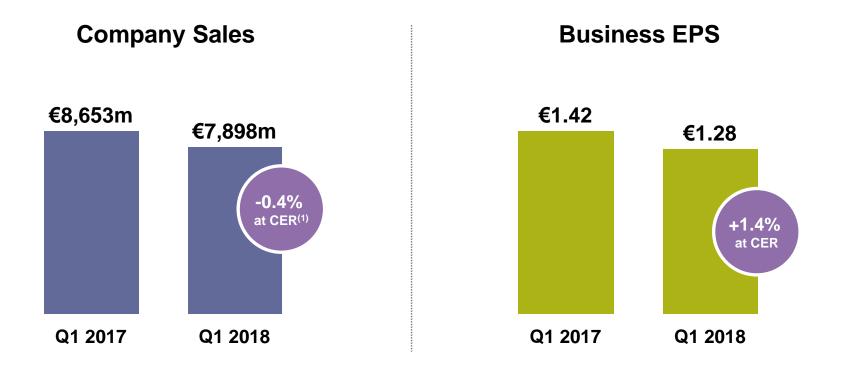






**KEY HIGHLIGHTS** 

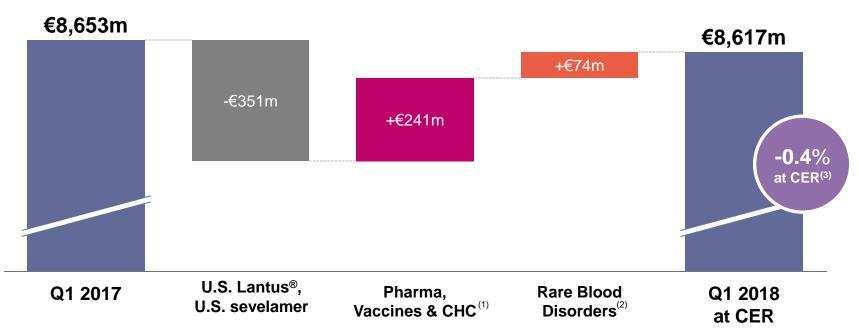
### Q1 Performance Reflects Anticipated Headwinds While **Executing on Key Drivers for Growth Recovery in H2 2018**





## Contributions from Growth Drivers Anticipated to Increase in H2 2018 as Headwinds Expected to Subside

#### **Q1 2018 Company Sales**





<sup>(1)</sup> Excludes U.S. Lantus, U.S. sevelamer and Rare Blood Disorders franchise

<sup>2)</sup> Bioverativ sales consolidated as of March 9, 2018

<sup>(3)</sup> Growth at Constant Exchange Rates (CER)

## Sanofi Genzyme Sales Continue to Grow Strongly and Surpassed Diabetes & Cardiovascular GBU in Q1 2018

#### Q1 2018 Sales by Global Business Unit

			Growth at CER/CS <sup>(1)</sup>
Con	npany Sales	€7,898m	-1.1%
	Sanofi Genzyme (Specialty Care) <sup>(2)</sup>	€1,460m	+11.2%
	Sanofi Pasteur (Vaccines)	€711m	-0.9%
	Diabetes & Cardiovascular <sup>(2)</sup>	€1,088m	-15.7%
O O	Consumer Healthcare <sup>(3)</sup>	€1,238m	+2.0%
	General Medicines & Emerging Markets (4,5,6)	€3,401m	-1.5%



<sup>(2)</sup> Does not include Emerging Markets sales

<sup>(3)</sup> Consumer Healthcare includes sales in Emerging Markets

<sup>(4)</sup> Includes Emerging Markets sales for Diabetes & Cardiovascular and Specialty Care

<sup>(5)</sup> Emerging Markets: World excluding U.S., Canada, Western & Eastern Europe (except Eurasia), Japan, South Korea, Australia, New Zealand and Puerto Rico

<sup>(6)</sup> Excluding global Consumer Healthcare sales and Vaccines

<sup>(7)</sup> Of which €64m in sales from Rare Blood Disorders. At CER growth was +16.2%

## Double Digit Growth in Specialty Care and Performance in EM Largely Offset Impact from LoE and Vaccines in Q1

#### **Q1 2018 Sales by Franchise**

			Developed	d Markets	Emerging Markets		
	Total Sales	Growth at CER/CS <sup>(1)</sup>	Sales	Growth at CER/CS <sup>(1)</sup>	Sales	Growth at CER/CS <sup>(1)</sup>	
Specialty Care	€1,710m	+12.0%	€1,460m	+11.2%	€250m	+16.9%(2)	
<b>Vaccines</b>	€711m	-0.9%	€471m	+10.9%	€240m	-18.4%	
Diabetes & Cardiovascular	€1,484m	-8.7%	€1,088m	-15.7%	€396m	+17.9%	
Consumer Healthcare	€1,238m	+2.0%	€829m	-3.5%	€409m	+14.4%	
Established Rx Products	€2,320m	-6.4%	€1,327m	-16.1%	€993m	+9.7%	
Generics	€435m	+0.9%	€256m	-0.8%	€179m	+3.0%	



EM = Emerging Markets; LoE = Losses of Exclusivity

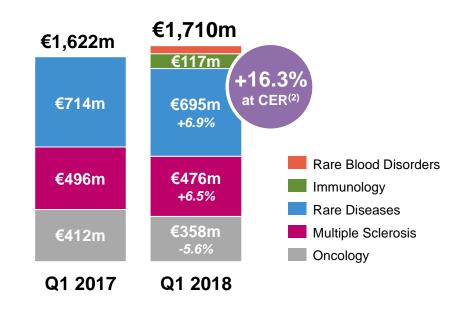
<sup>(1)</sup> Growth at Constant Exchange Rates and Constant Structure adjusting for Bioverativ acquisition (consolidated from March 9, 2018)

<sup>(2)</sup> At CER, growth was +16.3% for Total, +16.2% for Developed Markets and +16.9% for Emerging Markets

### New Rare Blood Disorder and Immunology Franchises Expand Rapidly Growing Specialty Care Business

- Rare Blood Disorder franchise contributed €64m
  - Bioverativ sales consolidated as of March 9, 2018
- Dupixent® sales reached €107m
  - Strong underlying demand with TRx sequentially up 25%<sup>(1)</sup>
  - U.S. sales evolution affected by inventory movement and usual higher patient assistance program costs at start of the year
- Rare Disease franchise up +6.9% driven by doubledigit growth in Gaucher and Pompe
- Multiple Sclerosis franchise up +6.5%
  - Aubagio® up +12% to €371m
  - Lemtrada® down -8.8% to €105m due to increased U.S. competition as well as unique dosing and durable effect

### Global Specialty Care Franchise Sales

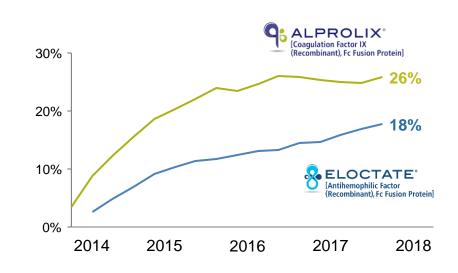




## Strong Performance of Our Innovative Hemophilia Portfolio Positions Sanofi as a Leader in Rare Blood Disorders

- Eloctate® and Alprolix® continue to change the hemophilia treatment paradigm
  - Eloctate<sup>®</sup> pro-forma growth: +27% at CER<sup>(1)</sup>
  - Alprolix® pro-forma growth: +12% at CER<sup>(1)</sup>
- Working towards roll-out in Emerging Markets
  - Launched in Colombia in March
- BIVV009 in CAgD<sup>(2)</sup> first patient dosed in Phase 3
- Tender offer to acquire Ablynx ongoing with initial acceptance period ending May 4, 2018

### Eloctate® and Alprolix® U.S. Patient Share Tracker(3)





<sup>(1)</sup> Growth comparing full 1st quarter 2018 sales vs full 1st quarter 2017 sales, at constant exchange rate. Unaudited data

<sup>(2)</sup> BIVV009 is an investigational compound being developed in Cold Agglutinin Disease

<sup>(3)</sup> Bioverativ Internal data. Share of number of moderate-severe patients

### Advancing the Next Generation of Hemophilia Treatment **Options with Fitusiran and BIVV001**

- Fitusiran Phase 3 reinitiated in hemophilia A and B patients
  - ATLAS-INH: 1st patient dosed
  - ATLAS-A/B and ATLAS-PPX: on-track for 2018 initiation
  - First Phase 3 read-out expected in H2 2019
- Bioverativ's hemophilia expertise and platform to be leveraged to support fitusiran development and launch
- New Phase 1 data on BIVV001, a next-generation EHL<sup>(1)</sup> Factor VIII therapy, to be presented at upcoming medical congress



- · Adults and adolescents with hemophilia A or B
- On-demand bypassing agents

with inhibitors

• N ~ 50



#### **2018 Start**

#### **2018 Start** ATLAS-PPX

- · Adults and adolescents with hemophilia A or B without inhibitors
- On-demand factor replacement
- N ~ 100

- · Adults and adolescents with hemophilia A or B with or without inhibitors
- Prophylaxis
- N ~ 100

9 months fitusiran

6 months PPX Factor/BPA

OR

OR

9 months

fitusiran

Followed by

9 months OD **BPA** 

9 months OD Factor

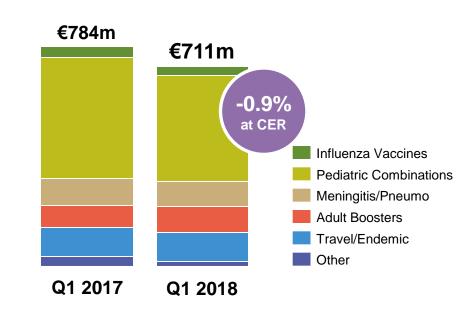
7 months fitusiran

SANOFI 1) Extended Half Life

## Strong Performance in Europe Nearly Offset Pentaxim® Supply Constraint in China

- Sanofi Pasteur sales of €711m (-0.9% at CER)
- European business delivers 38% growth supported by Repevax<sup>®</sup> recovery
  - Pediatric vaccines up 26% to €71m
- Pediatric combination franchise down -4.6% due to previously communicated impact from China supply constraint

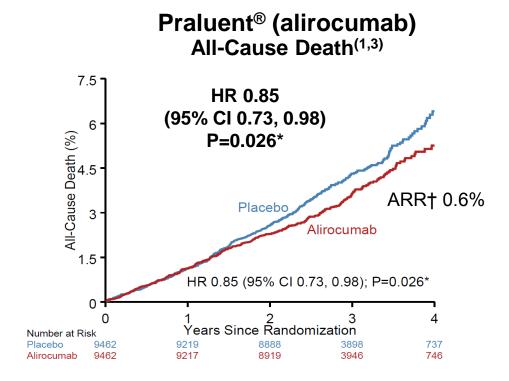
#### Sanofi Pasteur Sales

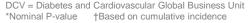




# DCV Building on Positive Praluent® ODYSSEY OUTCOMES Results<sup>(1)</sup> while Managing Challenges in U.S. Diabetes

- Praluent® ODYSSEY OUTCOMES study
  - 15% reduction in MACE<sup>(2)</sup> vs placebo, p=0.0003
  - Associated with 15% reduction in all-cause death, nominal p=0.026
  - Safety profile consistent with previous findings
- Praluent® payer discussions ongoing
- Global Diabetes sales declined in line with guidance
  - Strong growth in Emerging Markets, up +18%
  - U.S. sales down -27%
  - Europe sales broadly stable





<sup>(1)</sup> ODYSSEY OUTCOMES data have not been reviewed by any regulatory authorities

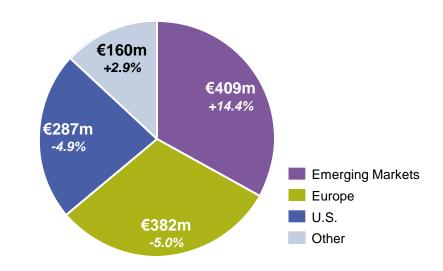
<sup>(2)</sup> MACE: Major Adverse Cardiovascular Events

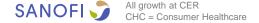
<sup>(3)</sup> Data from Praluent ODYSSEY OUTCOMES Study presented at American College of Cardiology – 67th Annual Meeting – Orlando, U.S.

# Consumer Healthcare Franchise Delivers Growth Supported by Strong Performance in Emerging Markets

- CHC franchise sales up +2.0% to €1,238m
- Emerging Markets +14% growth primarily driven by sales Latin America
- Developed Markets declined -3.5% on high base of comparison
  - Xyzal<sup>®</sup> 24H inventory build-up for Q1 2017 U.S. launch
  - European sales down -5.0% due to strong and early Cough and Cold season in Q1 2017

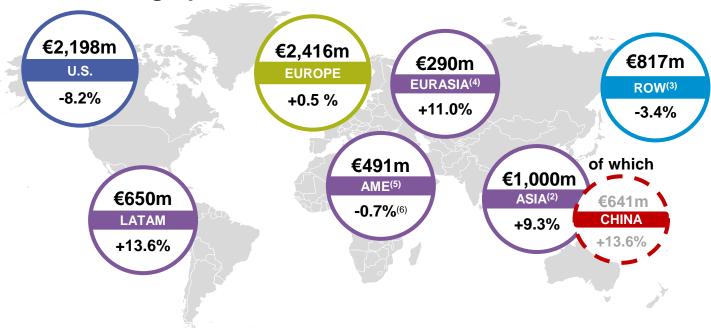
#### Q1 2018 CHC Sales by Geography





## Leadership in Emerging Markets<sup>(1)</sup> Drives 8.3% Growth in Q1 2018

#### Geographic Breakdown of Q1 2018 Sales



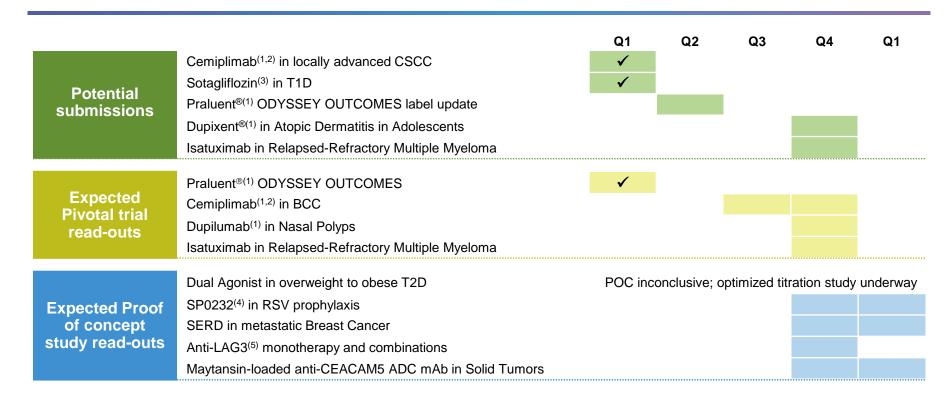


All growth at CER unless specified otherwise

- (1) World excluding U.S., Canada, Europe, Japan, South Korea, Australia, New Zealand and Puerto Rico
- (2) Includes China

- (3) RoW: Japan, South Korea, Canada, Australia, New Zealand and Puerto Rico
- (4) Eurasia: Russia, Ukraine, Georgia, Belarus, Armenia and Turkey
- (5) AME: Africa and Middle East
- (6) Excluding Maphar deconsolidation in Morocco, AME Q1 2018 growth was +4%

### **Key R&D Milestones Over Next 12 Months**



(2) Also known as SAR439684 and REGN2810



<sup>(4)</sup> Also known as MEDI8897, in collaboration with MedImmune

<sup>(1)</sup> In collaboration with Regeneron (5) Regeneron product for which Sanofi has opt-in right

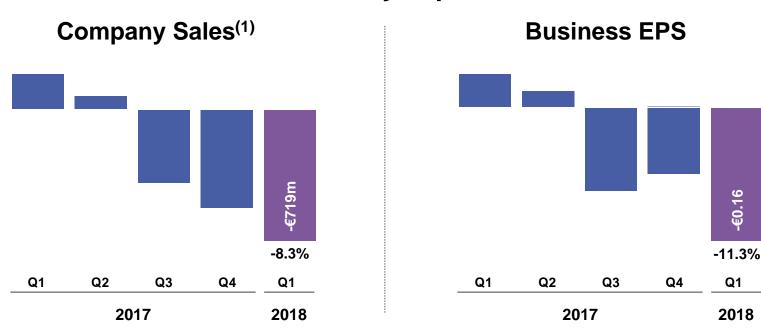




FINANCIAL RESULTS

# Currency Impact on Sales and EPS Intensified in Q1 but Expected to Progressively Ease Over the Course of 2018

#### **Currency Impact**





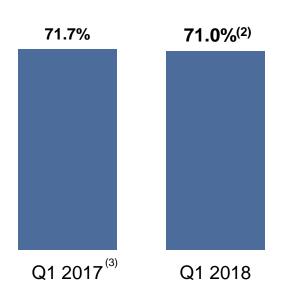
## **BOI Reflects U.S. LoEs and Investments in R&D and SG&A to Drive Anticipated Growth Phase Starting in H2 2018**

€m	Q1 2018	Q1 2017 <sup>(1)</sup>	% Change
Net Sales	7,898	8,653	-0.4%
Other revenues	228	249	+4.4%
Gross Profit	5,611	6,205	-0.8%
Gross margin %	71.0%	71.7%	
R&D	(1,280)	(1,309)	+4.5%
SG&A	(2,310)	(2,482)	+1.0%
Other current operating income & expenses	(31)	34	-
Share of profit/loss of associates	74	24	-
Minority interests	(30)	(35)	-
Business Operating Income	2,034	2,437	-6.5%
Business operating margin	25.8%	28.2%	

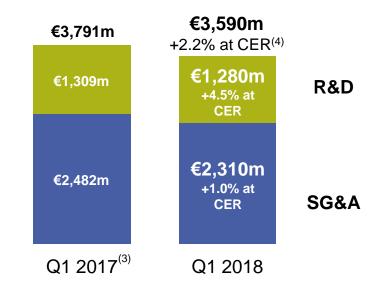


# Q1 2018 Gross Margin Declined While Disciplined Expense Management Led to Slight Operating Expense Growth

#### **Gross Margin Ratio**(1)



#### **Operating Expenses**





CER = Constant Exchange Rates

(4) Operating Expense growth ex-Bioverativ was 1.6% (SG&A +0.6%; R&D +3.5%)

Gross Margin is calculated as the ratio of Gross profit to Company sales (excluding Other revenues)

<sup>(3)</sup> Reflects the new IFRS15 revenue standard which became effective in 2018

## Business EPS Growth at CER Benefited from Lower Tax Rate and Positive Financial Items in the Quarter

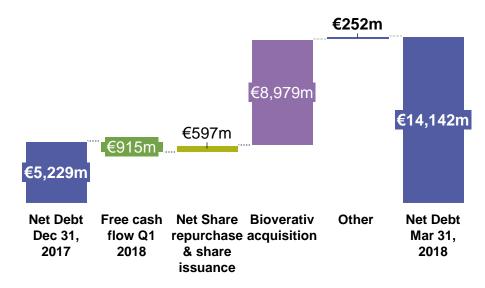
€m	Q1 2018	Q1 2017 <sup>(1)</sup>	% Change (reported €)	% Change (CER)
Net Sales	7,898	8,653	-8.7%	-0.4%
Gross Profit	5,611	6,205	-9.6%	-0.8%
Business Operating Income	2,034	2,437	-16.5%	-6.5%
Business operating margin %	25.8%	28.2%	-	-
Effective tax rate	22.0%	24.5%	-	-
Net Financial Income/(Expense)	2	(63)	-	-
Total Business Net Income	1,598	1,790	-10.7%	+0.4%
Average number of Shares	1,248.2	1,262.4	-	-
Business EPS	€1.28	€1.42	-9.9%	+1.4%



### Maintaining Balanced Approach to Capital Allocation

- Net debt increased to €14.1bn following closing of Bioverativ acquisition
  - 0.96% average cost of recently issued debt
- · Credit ratings reaffirmed
  - Moody's A1/stable
  - S&P AA/stable
  - Scope AA/stable
- €8bn bond issues successfully priced in March with terms extending up to 20 years

#### **Net Debt Evolution in Q1 2018**



New €1.5bn share repurchase program expected to be completed by mid-2019<sup>(1)</sup>



### **Reaffirming 2018 Financial Guidance**

**SANOFI FY 2018 Business EPS** +2% to +5% at CER<sup>(1,2)</sup> Approximately -7%<sup>(3)</sup> FX impact on Business EPS based on April 2018 average exchange rates



<sup>(1)</sup> Compared to FY2017 and barring major unforeseen adverse events

<sup>(2)</sup> FY 2017 Business EPS of €5.52 when applying the new IFRS15 revenue standard which became effective in 2018





**CLOSING REMARKS** 

## Progress in Q1 2018 Supports Transition to a New Growth Phase

- 1 Q1 consistent with FY18 outlook
- 2 Progress on new products
- 3 Building leadership in rare blood disorders



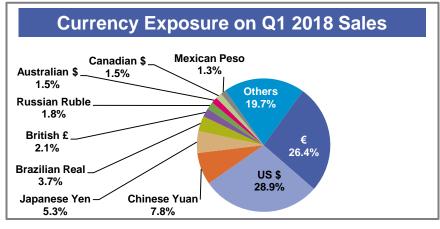




# **APPENDICES FINANCE**

### 2018 Currency Sensitivity and Q1 2018 Currency Exposure

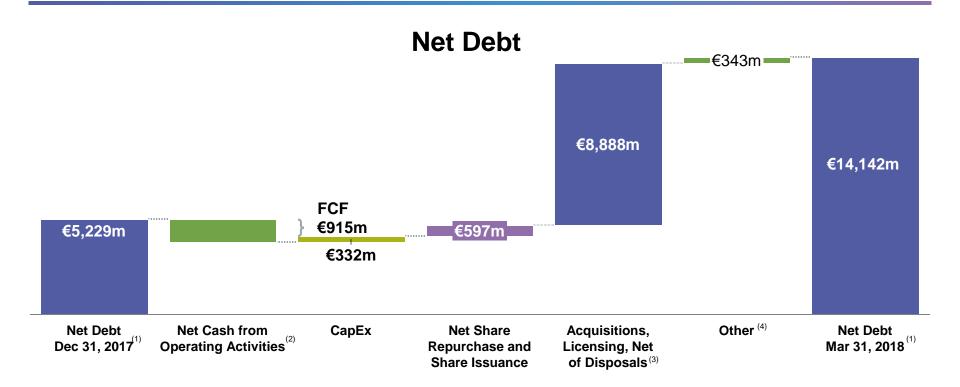
2018 Business EPS Currency Sensitivity								
Currency	Variation	Business EPS Sensitivity						
U.S. Dollar	+ 0.05 USD/EUR	- EUR 0.10						
Japanese Yen	+ 5 JPY/EUR	- EUR 0.01						
Chinese Yuan	+ 0.2 CNY/EUR	- EUR 0.02						
Brazilian Real	+ 0.4 BRL/EUR	- EUR 0.02						
Russian Ruble	+ 10 RUB/EUR	- EUR 0.03						



Currency Average Rates									
	Q1 2017	Q1 2018	% change						
EUR/USD	1.06	1.23	+15.4%						
EUR/JPY	121.12	133.16	+9.9%						
EUR/CNY	7.32	7.81	+6.8%						
EUR/BRL	3.35	3.99	+19.3%						
EUR/RUB	62.53	69.93	+11.8%						



#### **Net Debt Evolution in Q1 2018**





FCF: Free Cash Flow

<sup>57</sup>m at (3) Including acquisition of Bioverativ acquisition
(4) Other including Restrictivities agets and Exit

#### **Business Net Income Statement – Q1 2018**

First Quarter 2018	ı	Pharmaceuticals		Cor	nsumer Healthcar	е		Vaccines		Othe	ers <sup>(2)</sup>			Total Group	
€ million	Q1 2018	Q1 2017 <sup>(1)</sup>	Change	Q1 2018	Q1 2017 <sup>(1)</sup>	Change	Q1 2018	Q1 2017 <sup>(1)</sup>	Change	Q1 2018	Q1 2017	Change	Q1 2018	Q1 2017 <sup>(1)</sup>	Chang
Net sales	5,949	6,539	(9.0%)	1,238	1,330	(6.9%)	711	784	(9.3%)	-	-	-	7,898	8,653	(8.7%
Other revenues	58	76	(23.7%)	-	-	-	170	173	(1.7%)	-	-	-	228	249	(8.4%
Cost of Sales	(1,587)	(1,710)	(7.2%)	(399)	(425)	(6.1%)	(475)	(498)	(4.6%)	(54)	(64)	(15.6%)	(2,515)	(2,697)	(6.7%
As % of net sales	(26.7%)	(26.2%)		(32.2%)	(32.0%)		(66.8%)	(63.5%)					(31.8%)	(31.2%)	
Gross Profit	4,420	4,905	(9.9%)	839	905	(7.3%)	406	459	(11.5%)	(54)	(64)	(15.6%)	5,611	6,205	(9.6%
As % of net sales	74.3%	75.0%		67.8%	68.0%		57.1%	58.5%					71.0%	71.7%	
Research and development expenses	(978)	(1,000)	(2.2%)	(28)	(22)	27.3%	(126)	(123)	2.4%	(148)	(164)	(9.8%)	(1,280)	(1,309)	(2.2%
As % of net sales	(16.4%)	(15.3%)		(2.3%)	(1.7%)		(17.7%)	(15.7%)					(16.2%)	(15.1%)	
Selling and general expenses	(1,254)	(1,385)	(9.5%)	(389)	(436)	(10.8%)	(153)	(170)	(10.0%)	(514)	(491)	4.7%	(2,310)	(2,482)	(6.9%
As % of net sales	(21.1%)	(21.2%)		(31.4%)	(32.8%)		(21.5%)	(21.7%)					(29.2%)	(28.7%)	
Other operating income/expenses	(7)	33		5	32		2	(3)		(31)	(28)		(31)	34	
Share of profit/loss of associates* and joint-ventures	75	24		-	-		(1)	-		-	-		74	24	
Net income attributable to non controlling interests	(26)	(27)		(4)	(8)		-	-		-	-		(30)	(35)	
Business operating income	2,230	2,550	(12.5%)	423	471	(10.2%)	128	163	(21.5%)	(747)	(747)	-	2,034	2,437	(16.5%
As % of net sales	37.5%	39.0%		34.2%	35.4%		18.0%	20.8%					25.8%	28.2%	
										Financial incom	ie & expenses		2	(63)	
										Income tax exp	enses		(438)	(584)	
										Tax rate**			22.0%	24.5%	

**Business net income** 

Business earnings / share (in €)\*\*\*

As % of net sales



(10.7%)

1.598

20.2%

1.28

1.790

20.7%

1.42

Net of tax

<sup>\*\*</sup> Determined on the basis of Business income before tax, associates, and non-controlling interests.

<sup>\*\*\*</sup> Based on an average number of shares outstanding of 1,252.9 million in the fourth quarter of 2017 and 1,282.9 million in the fourth quarter of 2016.

<sup>(1) 2017</sup> restated using the new revenue recognition standard IFRS15, effective January 1, 2018.

<sup>(2)</sup> Other includes the cost of global support functions (Medical Affairs, External Affairs, Finance, Human Resources, Information Solution & Technologies, Sanofi Business Services,

### **Consolidated Income Statements**

€ million	Q1 2018	Q1 2017 <sup>(1)</sup>
Net sales	7,898	8,653
Other revenues	228	249
Cost of sales	(2,545)	(2,785)
Gross profit	5,581	6,117
Research and development expenses	(1,280)	(1,309)
Selling and general expenses	(2,312)	(2,482)
Other operating income	25	60
Other operating expenses	(56)	(26)
Amortization of intangible assets	(458)	(503)
Impairment of intangible assets	(3)	-
Fair value remeasurement of contingent consideration	(56)	(36)
Restructuring costs and similar items	(191)	(119)
Other gains and losses and litigation	(49)	-
Operating income	1,201	1,702
Financial expenses	(95)	(111)
Financial income	97	48
Income before tax and associates and joint ventures	1,203	1,639
Income tax expense	(187)	(336)
Share of profit / loss of associates and joint ventures	30	-
Net income excluding the held for exchange Animal Health business	1,046	1,303
Net income from the held for exchange Animal Health Business (2)	(1)	4,427
Net income	1,045	5,730
Net income attributable to non-controlling interests	29	34
Net income attributable to equity holders of Sanofi	1,016	5,696
Average number of shares outstanding (million)	1,248.2	1,262.4
Earnings per share excluding the held for exchange Animal Health Business (in euros)	0.81	1.01
IFRS Earnings per share (in euros)	0.81	4.51



<sup>(1) 2017</sup> restated using the new revenue recognition standard IFRS15, effective January 1, 2018.

(2) In 2017, net gain resulting from the divestment of the Animal Health business presented separately in accordance with IFRS 5, Non current assets held-for-sale and discontinued

## Reconciliation of Consolidated Net Income Attributable to Equity Holders of Sanofi to Business Net Income – Q1 2018

€ million	Q1 2018	Q1 2017 <sup>(1)</sup>	Change
Net income attributable to equity holders of Sanofi	1,016	5,696	(82.2%)
Amortization of intangible assets (2)	458	503	
Impairment of intangible assets	3	-	
Fair value remeasurement of contingent consideration	56	36	
Expenses arising from the impact of business combinations on inventories	30	88	
Other expenses related to business combinations	2	-	
Restructuring costs and similar items	191	119	
Other gains and losses, and litigation (3)	49	-	
Tax effect of items listed above:	(185)	(248)	
Amortization & impairment of intangible assets	(122)	(182)	
Fair value remeasurement of contingent consideration	(6)	(6)	
Expenses arising from the impact of business combinations on inventories	(6)	(28)	
Other expenses related to business combinations	(1)	-	
Restructuring costs and similar items	(52)	(43)	
Other tax effects	2	11	
Other tax items (4)	(66)	-	
Share of items listed above attributable to non-controlling interests	(1)	(1)	
Restructuring costs of associates and joint-ventures, and expenses arising from the impact of acquisitions on associates and joint-ventures	44	24	
Animal Health items (5)	1	(4,427)	
Business net income	1,598	1,790	(10.7%)
IFRS earnings per share <sup>(6)</sup> (in euros)	0.81	4.51	

- (1) 2017 restated using the new revenue recognition standard IFRS15, effective January 1, 2018.
- (2) Of which related to amortization expense generated by the remeasurement of intangible assets as part of business combinations: €425 million in the first quarter of 2018 and €466 million in the first quarter of 2017.
- (3) In 2018, separation costs for the European Generics business divestiture.
- (4) In 2018, mainly due to US tax reform.
- (5) In 2017, net gain resulting from the divestment of the Animal Health business presented separately in accordance with IFRS 5, Non current assets held-for-sale and discontinued operations.
- (6) Based on an average number of shares outstanding of 1,248.2 million in the first quarter of 2018 and 1,262.4 million in the first quarter of 2017.







APPENDICES RESEARCH & DEVELOPMENT

### R&D Pipeline – New Molecular Entities(\*)

	se 1 al:14)	Phas (Tota		Phase 3 (Total:6)	Registration (Total:2)					
<b>SAR439794</b> TLR4 agonist Peanut Allergy	SAR442168 <sup>(3)</sup> BTK inhibitor Multiple Sclerosis	SAR440340(**) Anti-IL33 mAb Asthma	SAR425899 GLP-1/GCG dual agonist Obesity/Overweight in T2D	<b>isatuximab</b> Anti-CD38 mAb 3L Relapsing Refractory MM (ICARIA)	cemiplimab(10)(**) PD-1 inhibitor mAb Advanced CSCC (EU)					
SAR408701 Maytansin-loaded anti-CEACAM5 mAb Solid Tumors	SAR438335 GLP-1/GIP dual agonist Type 2 Diabetes	SAR156597 IL4/IL13 bi-specific mAb Systemic Scleroderma	mavacamten( <sup>7</sup> )(**) Myosin inhibitor Obstructive Hypertrophic Cardiomyopathy	avalglucosidase alfa Neo GAA Pompe Disease	sotagliflozin("") Oral SGLT-1&2 inhibitor Type 1 Diabetes (U.S./EU)					
SAR439459 anti-TGFβ mAb Advanced Solid Tumors	SAR440181(4)(**) Myosin activation Dilated Cardiomyopathy	<b>GZ389988</b> TRKA antagonist Osteoarthritis	SAR407899 rho kinase Microvascular Angina	<b>fitusiran</b> ( <sup>9)</sup> siRNA targeting Anti-Thrombin Hemophilia A and B						
REGN3767 <sup>(1)</sup> Anti LAG-3 mAb Advanced Cancers	SAR247799 S1P1 agonist Cardiovascular indication	R SAR566658  Maytansin-loaded anti-CA6 mAb Triple Negative Breast Cancer	Combination <b>ferroquine / OZ439</b> (**) Antimalarial	BIVV009 Anti Complement C1s mAb Cold Agglutinin Disease						
SAR439859 SERD Metastatic Breast Cancer	Herpes Simplex Virus Type 2 HSV-2 vaccine	R olipudase alfa rhASM Acid Sphingomyelinase Deficiency <sup>(5)</sup>	Tuberculosis Recombinant subunit vaccine	SAR341402 Rapid acting insulin Type 1/2 Diabetes						
<b>BIVV001</b> rFVIIIFc – vWF – XTEN <sup>(2)</sup> Hemophilia A	Respiratory syncytial virus Infants Vaccines	SAR339375 <sup>(6)</sup> miRNA-21 Alport Syndrome	HIV Viral vector prime & rgp120 boost vaccine	<b>efpeglenatide<sup>(**)</sup></b> Long-acting GLP-1 agonist Type 2 Diabetes						
<b>UshStat®</b> Myosin 7A gene therapy Usher Syndrome 1B		<b>venglustat</b> Oral GCS inhibitor Gaucher related Parkinson's Disease	SP0232 <sup>(8)</sup> mAb <sup>(**)</sup> Respiratory syncytial virus Monoclonal Antibody							
SAR228810 Anti-protofibrillar AB mAb Alzheimer's Disease										
	R Registration Study  Opt-in rights products for which rights have not been exercised to the state of the sta									
(2) Recombinant (3) Also known as (4) Also known as (5) Also known as (6) Regulus produ		Immuno-inflammati clics rare s on fitusiran  Rare Diseases hts on some  Rare Blood Disord  MS, Neuro, Gene t	Cardiovascular & metabolism Infectious Diseases Vaccines							



#### Additional Indications(\*)

Phase 1 (Total:5)		ase 2 lal:12)		Phase 3 (Total:16)			
SAR439459 + cemiplimab <sup>(1)</sup> (") Anti-TGFβ mAb + PD1 inhibitor mAb Advanced Solid Tumors	<b>dupilumab</b> (**) Anti-IL4Rα mAb Eosinophilic Esophagitis	sotagliflozin("') SGLT 1 & 2 inhibitor Worsening Heart Failure in Diabetes	<b>dupilumab(**)</b> Anti-IL4Rα mAb Asthma 6 - 11 years old	<b>isatuximab</b> Anti-CD38 mAb 1-3L Relapsing Refractory MM (IKEMA)	<b>dupilumab</b> (**) Anti-IL4Rα mAb Asthma 12y+ (U.S./EU)		
<b>isatuximab</b> Anti-CD38 mAb + CyBord <sup>(2)</sup> Newly Diagnosed MM	R sarilumab(**) Anti-IL6R mAb Polyarticular Juvenile Idiopathic Arthritis	Rabies VRVg Purified vero rabies vaccine	<b>dupilumab</b> (**) Anti-IL4Rα mAb Nasal Polyposis	sotagliflozin <sup>(**)</sup> Oral SGLT-1&2 inhibitor Type 2 Diabetes	VaxiGrip® QIV IM Quadrivalent inactivated Influenza vaccine 6 - 35 months		
cemiplimab <sup>(1)(**)</sup> + REGN3767 <sup>(3)</sup> PD-1 inhibitor mAb + anti LAG-3 mAb Advanced Cancers	<b>sarilumab(**)</b> Anti-IL6R mAb Systemic Juvenile Arthritis	Adacel+ Tdap booster	<b>Dupixent<sup>®(**)</sup></b> Anti-IL4Rα mAb Atopic Dermatitis 12 – 17 years old	<b>Aubagio</b> <sup>®</sup> teriflunomide Relapsing Multiple Sclerosis - Pediatric	PR5i DTP-HepB-Polio-Hib Pediatric hexavalent vaccines (U.S.)		
SAR439859 SERD + Palbociclib Metastatic Breast Cancer	R cemiplimab <sup>(1)(**)</sup> PD-1 inhibitor mAb Advanced Basal Cell Carcinoma	Shan 6 DTP-HepB-Polio-Hib Pediatric hexavalent vaccine	<b>Dupixent<sup>®(**)</sup></b> Anti-IL4Rα mAb Atopic Dermatitis 6 – 11 years old	<b>Lemtrada®</b> alemtuzumab Relapsing Remitting Multiple Sclerosis - Pediatric	Fluzone® 0,5 mL QIV Quadrivalent inactivated Influenza vaccine 6 months+		
BIVV009 Anti Complement C1s mAb Immune Thrombocytopenia	isatuximab + cemiplimab <sup>(1)(**)</sup> Anti-CD38 mAb + PD-1 inhibitor mAb Relapsing Refractory MM		Dupixent <sup>®(**)</sup> Anti-IL4Rα mAb Atopic Dermatitis 6 months - 5 years old	Praluent®(**) Anti-PCSK9 mAb CV events reduction			
	isatuximab + cemiplimab <sup>(1)(*)</sup> Anti-CD38 mAb + PD-1 inhibitor mAb Advanced Malignancies		cemiplimab <sup>(1)(**)</sup> PD-1 inhibitor mAb 1L NSCLC	Fluzone® QIV HD Quadrivalent inactivated Influenza vaccine - High dose			
	venglustat Oral GCS inhibitor Gaucher Disease Type 3		cemiplimab(¹)(**) PD-1 inhibitor mAb 2L Cervical Cancer	Men Quad TT  Advanced generation meningococcal  ACYW conjugate vaccine			
	<b>venglustat</b> Oral GCS inhibitor Fabry Disease		<b>isatuximab</b> Anti-CD38 mAb 1L Newly Diagnosed MM (IMROZ)	Pediatric pentavalent vaccine DTP-Polio-Hiib Japan			
				R Registration Study Opt-in rights products Immuno-inflammation Oncology	for which rights have not been exercised ye  Diabetes  Cardiovascular & metabolism		



(1) Also known as SAR439684 and REGN2810

(2) Cyclophosmamide + bortezomib (Velcade®) + dexamethasone
(3) Regeneron product for which Sanofi has opt-in right
(\*) Data related to all studies published on clinicaltrials.gov

(\*\*) Partnered and/or in collaboration - Sanofi may have limited or shared rights on some of these products





Rare Blood Disorders MS, Neuro, Gene therapy

### **Expected Submission Timeline**(1)

Following the Alnylam/Sanofi strategic restructuring of the RNAi therapeutics rare

disease alliance announced in January 2018, Sanofi now has global rights on fitusiran

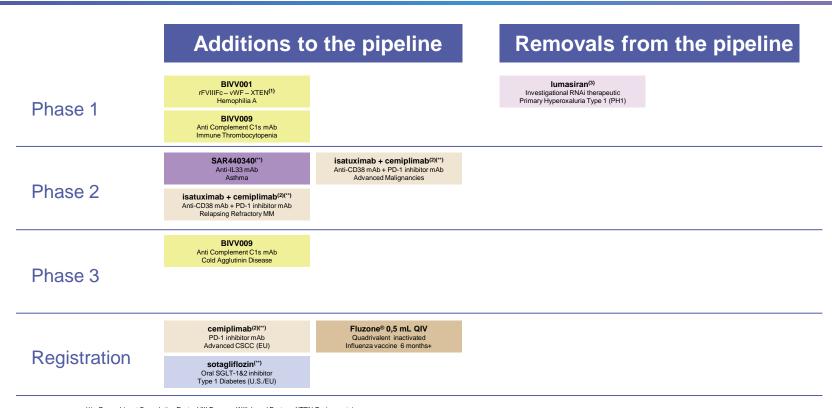
avalglucosidase alfa GZ389988 SAR422459 Combination ABCA4 gene therapy ferroquine / OZ439(\*\*) Neo GAA TRKA antagonist Pompe Disease - U.S./EU Osteoarthritis - U.S./EU Stargardt Disease -- U.S./EU Antimalarial - U.S./EU SAR156597 olipudase alfa SP0232 mAbs(10)(\*\*) isatuximab venglustat IL4/IL13 bi-specific mAb anti-CD38 mAb rhASM Oral GCS inhibitor Respiratory syncytial virus vstemic Scleroderma - U.S./EU 3L RRMM (ICARIA) - u.s. ASD(6) - IIS/FII GrPD(9) - 115 /FII SAR425899 SAR440340(\*\*) cemiplimab(2)(\*\*) fitusiran(7) **Tuberculosis** GLP-1/GCG dual agonist siRNA inhibitor PD-1 inhibitor mAb Anti-IL33 mAb Recombinant subunit vaccine Obesity/Overweight in T2D Advanced CSCC - U.S./FU Hemophilia A/B - U.S./EU Asthma - U.S./EU SAR566658 BIVV009(8) sotagliflozin(\*\*) SAR341402 efpeglenatide(\*\*) SAR407899 HIV Anti Complement C1s mAb Maytansin-loaded anti-CA6 Oral SGLT-1&2 inhibitor Rapid acting insulin Long acting GLP1-R agonist rho kinase Viral vector prime & rgp120 Cold Agglutinin Disease mAb Type 1 Diabetes - U.S./EU Type 1/2 Diabetes - FU(4) Type 2 Diabetes - U.S./FU Microvascular Angina - U.S./EU boost vaccine ILS /FII Triple Negative Breast Cancer 2019 2020 2021 2022 and beyond 2018 sarilumab(\*\*) dupilumab(3)(\*\*) Dupixent®(\*\*) dupilumab(3)(\*\*) Dupixent®(3)(\*\*) sotagliflozin(\*\*) Shan 6 venglustat Anti-II 6R mAh Anti-IL4Ra mAb Anti-IL4Ra mAb Adacel+ Anti-IL4Ra mAb Anti-IL4Ra mAb Oral SGLT-1&2 inhibitor DTP-HepB-Polio-Hib Oral GCS inhibitor Polvarticular Juvenile Tdap booster Asthma 6 - 11 years old AD 6 months - 5 years old Asthma adults & adolesc. - EU AD 6 - 11 years old - U.S./EU Type 2 Diabetes - EU(5) Pediatric hexavalent vaccine Fabry Disease - U.S./EU Idiopathic Arthritis - U.S./EU **Additional Indication** sarilumab(\*\*) isatuximab venalustat Pediatric pentavalent Dupixent®(3)(\*\*) dupilumab(3)(\*\*) Fluzone® QIV HD cemiplimab(2)(\*\*) Anti-IL6R mAb Rabies VRVq Anti-CD38 mAb (IMROZ) Oral GCS inhibitor PD-1 inhibitor mAb Anti-IL4Ra mAb Anti-IL4Ra mAb Quadrivalent inactivated vaccine Systemic Juvenile Arthritis Gaucher Disease Type 3 Purified vero rabies vaccine 1L Newly Diagnosed MM AD 12 - 17 years old - U.S./EU Nasal Polyposis Adult - U.S./EU Influenza vaccine - High dose 2L Cervical Cancer - U.S./EU DTP-Polio-Hib (Japan) U.S./EU U.S./FU sotagliflozin(\*\*) isatuximah dupilumab(3)(\*\*) ceminlimah(2)(\*\*) Praluent®(\*\*) Men Quad TT SGLT 1/2 inhibitor Anti-IL4Ra mAb Anti-CD38 mAb PD-1 inhibitor mAb Anti-PCSK9 mAb Adv. generation meningococcal Worsening Heart Failure in Eosinophilic Esophagitis Advanced BCC - U.S./EU U.S. & EU - 10 Yrs + 1-3L RRMM (IKEMA) - U.S./EU CV events reduction - U.S./EU Diabetes - U.S./EU Aubagio<sup>®</sup> cemiplimab(2)(\*\*) teriflunomide PD-1 inhibitor mAb 1L NSCLC - U.S./FU Relapsing MS - Ped. - U.S./EU Immuno-inflammation Diabetes Excluding Phase 1 - Data related to all studies published on clinicaltrials.gov Currently operating as separate entities. Reported dates are based on prior Bioverativ Oncology Cardiovascular & metabolism Also known as SAR439684 and REGN2810 disclosure of study completion date Also known as SAR231893 Gaucher Related Parkinson's Disease Rare Diseases Infectious Diseases Submission strategy for the U.S. under evaluation Also known as MEDI8897 Submission for the U.S. expected in 2020 Partnered and/or in collaboration - Sanofi may have limited or shared rights on some of Vaccines Rare Blood Disorders Acid Sphingomyelinase Deficiency these products

MS, Neuro, Gene therapy

35



### **Pipeline Movements Since Q4 2017**





<sup>(1)</sup> Recombinant Coagulation Factor VIII Fc - von Willebrand Factor - XTEN Fusion protein

<sup>(2)</sup> Also known as SAR439684 and REGN2810

<sup>(3)</sup> In March 2018 Sanofi Genzyme declined its opt-in for the development and commercialization of lumasiran (ALN-GO1)

(\*\*) Partnered and/or in collaboration – Sanofi may have limited or shared rights on some of these products

### **R&D Pipeline Summary – Total Projects**<sup>(1)</sup>

	Phase 1	Phase 2	Phase 3	Registration	TOTAL
Immuno-inflammation	1	6	5	1	13
Oncology	8	4	5	1	18
Rare Diseases	0	4	2	0	6
Rare Blood Disorders	2	0	1	0	3
Multiple Sclerosis, Neurology, Gene therapy	3	2	2	0	7
Diabetes	1	2	3	1	7
Cardiovascular Diseases	2	2	1	0	5
Infectious Diseases	0	1	0	0	1
Vaccines	2	6	3	3	14
TOTAL	19	27	22	6	

74

28

**Total Projects** 

