



*July 29* 2016

#### SAFE HARBOR

This presentation may contain forward-looking information. Forwardlooking statements describe expectations, plans, strategies, goals, future events or intentions. The achievement of forwardlooking statements contained in this presentation is subject to risks and uncertainties relating to a number of factors, including general economic factors, interest rate and foreign currency exchange rate fluctuations, changing market conditions, product competition, the nature of product development, impact of acquisitions and divestitures, restructurings, products withdrawals, regulatory approval processes, all-in scenario of R&D projects and other unusual items.

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#### **FORENOTE**

The results of former Cytec are consolidated in the Group's income and cash flow statements since January 1, 2016. Comparative information for the second quarter and first half year of 2015 is presented on an unaudited pro forma basis as if the acquisition of Cytec had taken place on January 1, 2015.

Besides IFRS accounts, Solvay also presents underlying Income Statement performance indicators to provide a more consistent and comparable indication of the Group's financial performance. The underlying performance indicators adjust IFRS figures for the non-cash Purchase Price Allocation (PPA) accounting impacts related to acquisitions, for the coupons of perpetual hybrid bonds, classified as equity under IFRS but treated as debt in the underlying statements, and for other elements that would distort the analysis of the Group's underlying performance.

The comments on the results are made on an underlying basis unless otherwise stated.







#### **EXECUTING OUR PLAN**



- → Significant cash generation improvement
- Profit growth and record margin
- → Sustained excellence efforts
- → Accelerated synergies from Cytec

**Delivering on priorities** 





## Q2 RESULTS RECORD MARGIN & IMPROVED CASH GENERATION

## EBITDA 8% 7

- Pricing power 7
  - Positive for 10 quarters in a row
- Volume
  - Innovation-driven growth in Advanced Materials and solid growth in Performance Chemicals
  - Partially offset by oil & gas headwinds

Record EBITDA margin at 22%

## Free Cash Flow [1] 27% 7

- Higher profits
- Reduced CapEx
- Working capital discipline

■ H1 free cash flow [1] of €200 m, up by €346 m

Higher cash conversion at >60%



#### RECOGNITION OF SOLVAY'S ADVANCED MATERIALS

Solvay and Mubadala JV strategically positioned to supply advanced composite materials for Boeing 777X primary structures

Solvay wins supplier excellence award from GKN Aerospace





## Transformation delivery Financial highlights Priorities and outlook Annexes Q2 2016 results



#### STRONG RESULTS FINANCIAL HIGHLIGHTS Q2 2016

€2.9 bn

-6%

**Net Sales** 

yoy

- ▼ Volume decrease in Advanced Formulations offset by other segments
- → Forex impact on conversion
- Deflation impact on prices

€652 m

+8%

**Underlying EBITDA** 

yoy

- Pricing power
- Fixed costs lower on Excellence and synergies delivery
- Forex impact on conversion
- → Margin record at 22%

€223 m

€216 m

Underlying net income

In Q2 2015

Group share

- Operating profit
- → Reduced scope discontinued operations (Inovyn)

€174 m

€ 137 m

Free cash flow

in Q2 2015

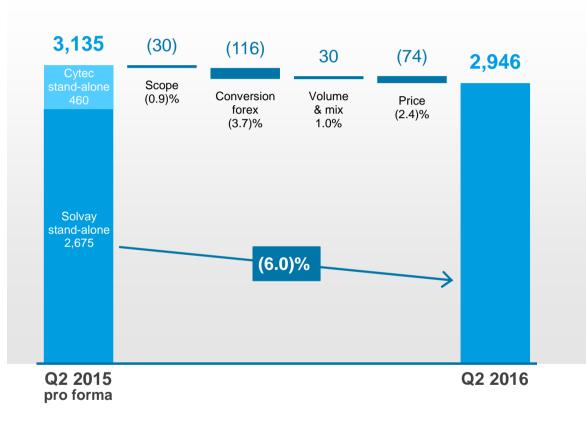
- Reinforced working capital discipline
- → Lower capex and higher EBITDA
- → FCF discontinued operations nil



## SALES DOWN DUE TO ADVERSE FOREX & DEFLATION

#### Net sales

in € m



#### → Volumes up slightly

- Market contraction in Advanced Formulations' oil & gas market
- More than offset by solid growth in other segments

#### **≥** Unfavorable conversion forex

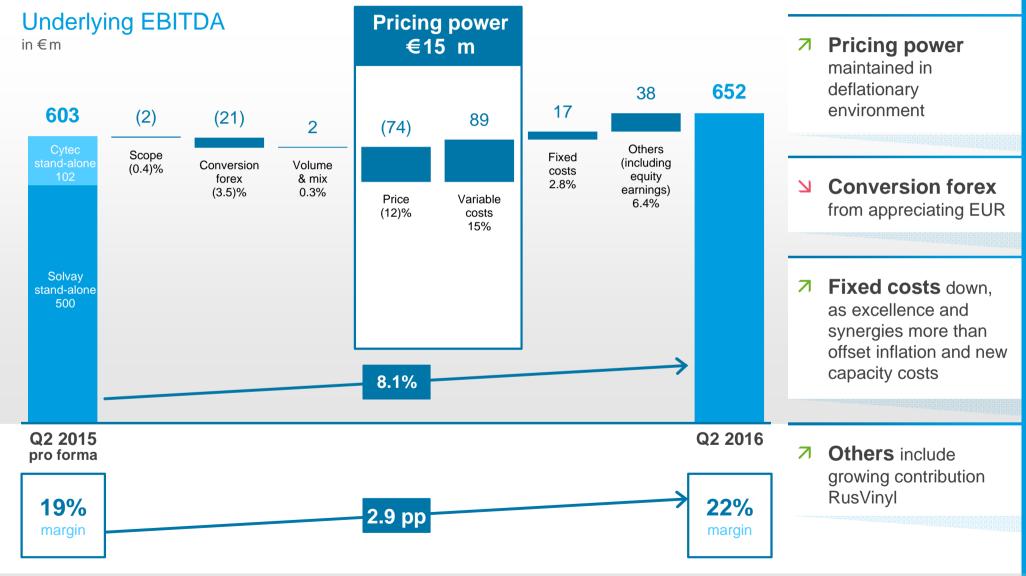
- Main impact from BRL conversion

#### Lower prices

▶ Partial pass-through of lower raw material costs in deflationary market

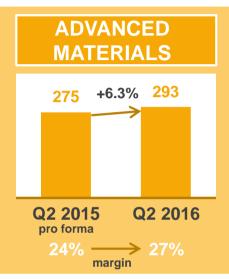


## RECORD EBITDA MARGIN UNDERPINNED BY EXCELLENCE AND SYNERGIES





## MARKET CONTRACTION OIL & GAS MORE THAN OFFSET IN OTHER SEGMENTS

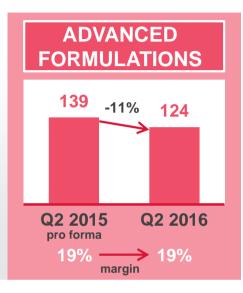


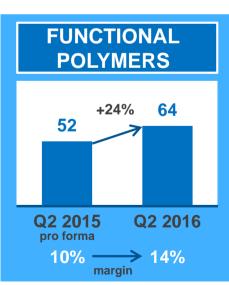
Growth driven by volumes and excellence, despite smart device destocking

42%

Contraction oil & gas market partly mitigated by other activities

17%

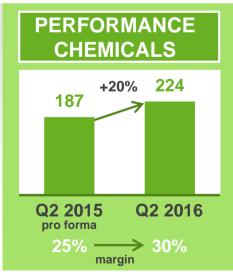






Growth mainly from chlorovinyls with growing contribution RusVinyl

2-digit growth from volume improvement and excellence





## UNDERLYING NET INCOME REFLECTING HIGHER OPERATING PROFIT

#### **Underlying P&L**

in € m

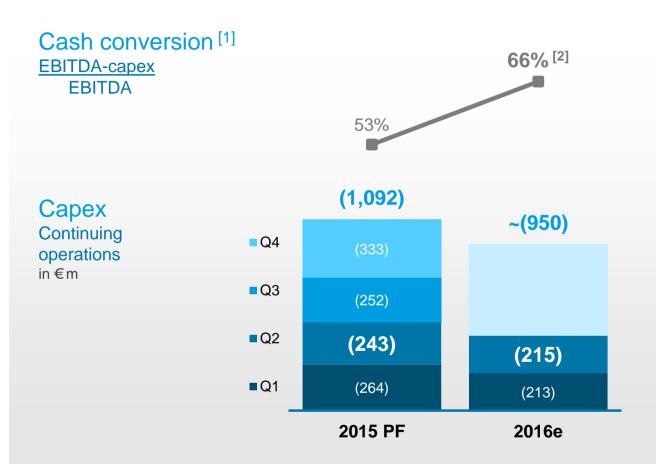
(in € m)	Q2 2016	Q2 2015 pro forma	% yoy
Net sales	2,946	3,135	(6)%
EBITDA	652	603	8%
EBITDA margin	22%	19%	2.9pp
Depreciation & amortization	(199)	(191)	(4)%
EBIT	453	412	10%
Net financial charges	(119)	(116)	(3)%
Income taxes	(94)	(92)	(3)%
Tax rate (ytd)	29%	31%	(1.7)pp
Discontinued operations	-	33	n.m.
Non-controlling interests	(16)	(21)	23%
Net income, Solvay share	223	216	4%
(Adjustments)	(39)	(78)	51%
Net income, Solvay share, IFRS	185	138	34%

#### Underlying net income (Solvay share) up 4%

- Depreciation and net financial charges slightly up on growing business
- Underlying tax rate at 29% ytd vs 30% in full year 2015
- No contribution of discontinued operations, following European chlorovinyls transfer to Inovyn JV mid 2015



#### CASH CONVERSION IMPROVED DRIVEN BY HIGHER EBITDA AND LOWER CAPEX



**→2016** 

**Growth capex at >50% of total** ~2/3<sup>rd</sup> in Advanced Materials

- → Aerospace prepreg line in Germany
- → Expansion of Adhesives for aerospace in the U.K.
- → PEEK plant in US
- → Fluoropolymer plant in China, phase 2

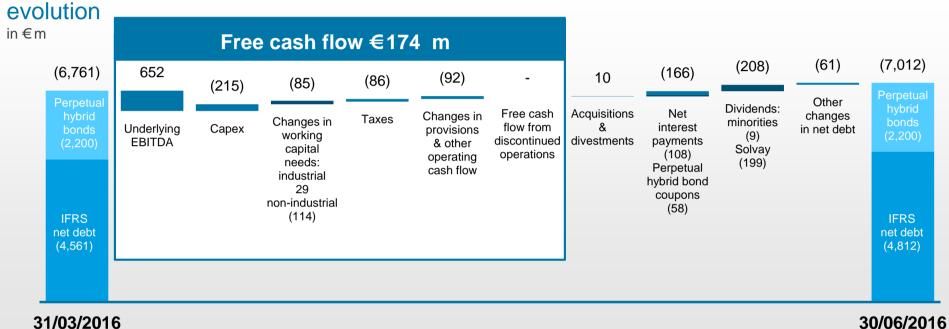
**Supplemented by** maintenance capex excellence

Profit growth Improved cash conversion SUSTAINABLE IMPROVEMENT IN FREE CASH FLOW



#### REINFORCED FOCUS LEADS TO SUSTAINABLE FREE CASH FLOW GROWTH

Underlying net debt [1]



#### Free cash flow of €174 m vs €137 m in 2015 for continuing operations

- Driven by higher EBITDA, lower capex and strict working capital management
- 7 H1 FCF of continuing operations at €200 m, up €346 m

#### Focus on working capital management

- Seasonally higher H1 outflow reduced to € (296) m
- → Q2 outflow up vov due to measures to better phase payments over Q's

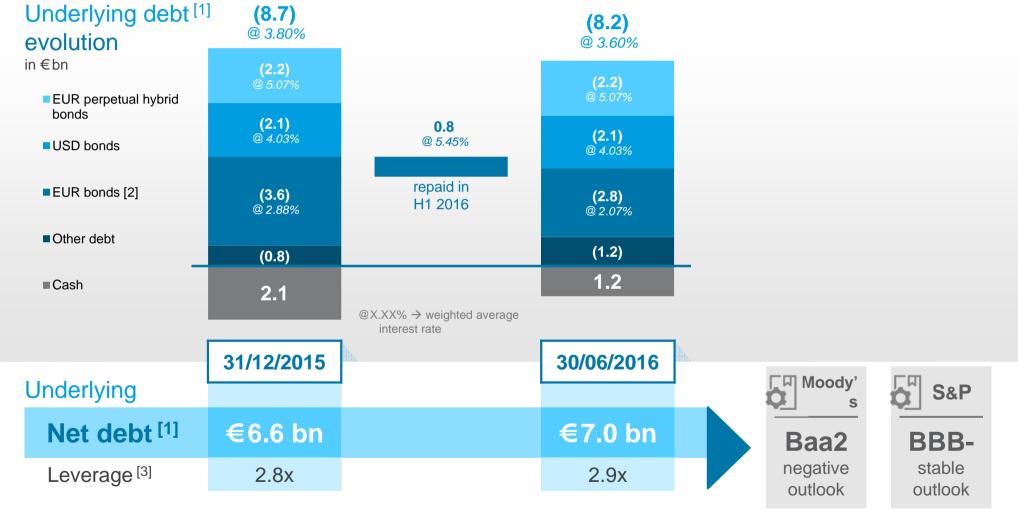
#### **Financial payments** seasonally higher in Q2

- Solvay final dividend
- Bond coupon payments front end-loaded

<sup>[1]</sup> Underlying net debt reclassifies hybrid perpetual bonds (considered as equity under IFRS) [2] (REBITDA - capex) / REBITDA



## EFFECTIVE TREASURY MANAGEMENT LEADING TO REDUCED COST OF DEBT



**INVESTMENT GRADE** 



<sup>[2]</sup> Including 2016 EIB loan, paid back in January, and subordinated 2104 hybrid bond

# Transformation delivery Financial highlights Priorities and outlook Annexes



## OUTLOOK REAFFIRMED FOR FY 2016



EBITDA to grow high single digits

Free cash flow to exceed €650 m



## OUR COMMITMENT

**Exceed expectations on Cytec synergies** 

**Excellence & portfolio optimization continuing** 

Reinforced focus on cash generation

**Attractive returns to shareholders** 





#### **INVESTOR RELATIONS CONTACTS**



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#### **NEXT EVENTS**

September 29 2016 Capital Markets Day, London November 8 2016

Q3 2016 results

**February 24 2017** 

Q4 & FY 2016 results

May 3 2017

Q1 2017 results

May 9 2017

Annual general meeting



# **ANNEXES** Additional Q2 2016 financial data Forex sensitivity & other financial considerations Solvay general information



## ADVANCED MATERIALS Q2 2016 INNOVATION & EXCELLENCE OVERCOME HEADWINDS



## Specialty Polymers' sales in other markets offset smart devices

- Good demand in automotive, healthcare, and consumer goods markets
- Smart devices sales impacted by destocking

## Composite Materials preparing for new program ramp-ups

- Aircraft backlog remains strong
- Growth in new programs not yet offsetting demand decline in business jet & rotorcraft markets

#### Special Chem strong volumes

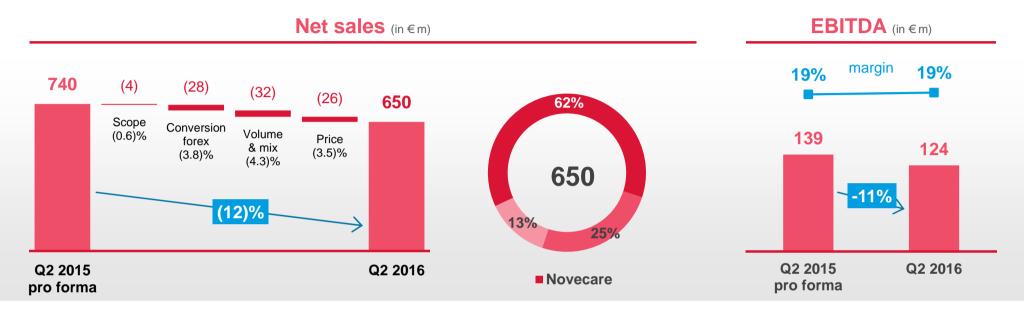
- Good demand from automotive catalysts
- Ramp-up of high-purity
   H<sub>2</sub>O<sub>2</sub> units for use in semiconductor industry
- Scope effect from sale of refrigerants & PCC business in 2015

#### **Silica** business intrinsically flat

- Good market conditions in Europe/Americas
- Weaker market conditions in Asia
- Forex impact from devaluation of Venezuelan bolivar



## ADVANCED FORMULATIONS Q2 2016 OIL & GAS HEADWINDS MASK OTHER MARKET GROWTH



#### O&G weighs on **Novecare**, more than offsetting growth in other markets

- Sales down (17)% yoy due to O&G headwinds
- Rig count stabilized toward end of Q2
- Innovation-driven growth in coatings and agro partially mitigated impact
- Operational excellence measures helped sustain margins

#### **Technology Solutions** stable performance despite mining industry challenges

- Lower Cu & Al prices driving curtailments at existing mines; new mine projects are delayed
- Focus on managing costs through challenging times

### Price pressure pushes **Aroma Performance**sales down

- Volume growth in vanillin formulations
- Price pressure continues, especially in monomer inhibitors



## PERFORMANCE CHEMICALS Q2 2016 DEMAND IMPROVEMENT DRIVES GROWTH



#### **Soda Ash & Derivatives**

- Demand returned for Europe & seaborne markets resulting in sales growth
- Bicarbonate sales increased as result of Thailand plant ramp up
- Gain of € 11 m on sale of surplus assets

#### **Peroxides**Stable performance

- Higher sales for traditional wood pulp bleaching offset lower sales in specialties
- Good global demand

#### Volume recovery in **Acetow**'s market

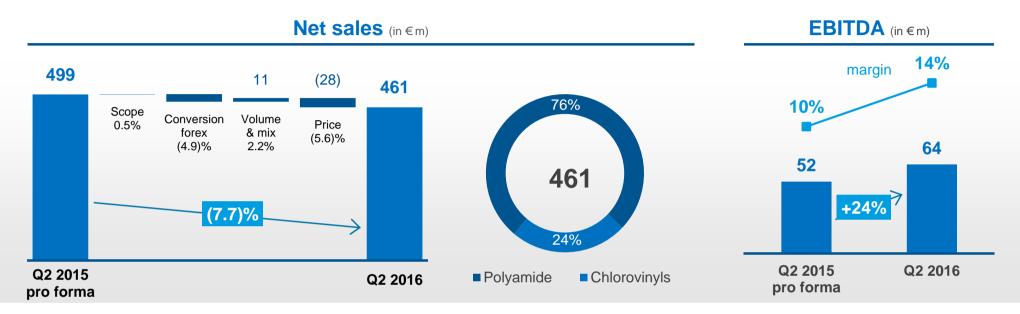
 Sustained recovery in market continues (with the exception of China) resulting in good volume growth

#### Coatis remains challenged

 Conditions in Latin America affecting volumes and prices



#### FUNCTIONAL POLYMERS Q2 2016 EXCELLENCE-DRIVEN PROFIT GROWTH & RUSVINYL UP



#### ChlorovinyIs up thanks to RusVinyI

- Solid contribution from RusVinyl JV (Russian operations), operating at close to full capacity
- Higher PVC sales volumes offset by caustic soda production in VinyThai (Thai operations)
- Cost improvement measures supported EBITDA growth

#### **Polyamide**

- Demand satisfactory
- Planned maintenance turnaround impacted margins



#### CORPORATE & BUSINESS SERVICES Q2 2016 COST DISCIPLINE MAINTAINED





#### Difficult business conditions for **Energy Services** with low energy & CO<sub>2</sub> prices

- Trading conditions in energy and carbon management services at low level
- Investments in biomass & biocoal-based energy plants proved more challenging

#### Other Corporate & Business Services

benefited from cost improvement programs and Cytec synergy delivery



## IFRS NET INCOME REFLECTING HIGHER OPERATING PROFIT

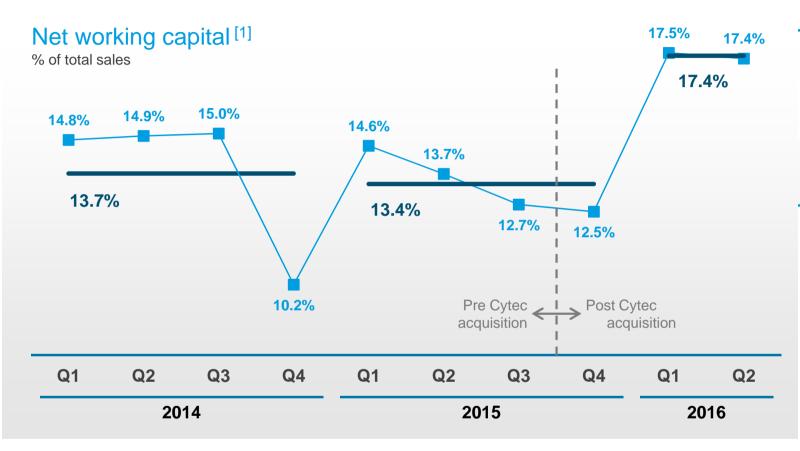
Underlying P&L in €m	Q2 2016	Q2 2015 pro forma	% yoy	
Net income, Solvay share	223	216	4%	
(Adjustments)	(39)	(78)	51%	
PPA impact	(68)	(72)		
Other legacy costs related to				
changes in portfolio (e.g.	(3)	(3)		
retention premiums) [1]				
Net financial charges and				
remeasurements of equity	5	(4)		
book value of the RusVinyl	5	(4)		
joint venture				
Non-recurring items	(22)	(47)		
Impact portfolio	(7)	(33)		
management	(7)	(33)		
Remediation & litigation	(15)	(14)		
(Financial adjustments)	34	29		
(Tax adjustments)	99	20		
Discontinued operations	(7)	(1)		
Non-controlling interests	2			
adjustments	2	-		
(Other adjustments)	(87)	(4)		
Net income, Solvay share, IFRS	185	138	34%	

#### IFRS net income (Solvay share) up 34%

- → €(68) m PPA impact, entirely from amortization of intangibles
- → €(7) m portfolio management & reassessments, mainly:
  - €(43) m restructuring costs
  - €33 m one-off gains, mainly release to Solvay of Chemlogics holdback payments
  - €(4) m reversal on impairments R&I
- → Exclusion of € (28) m hybrid debt coupons in net financial charges



#### WORKING CAPITAL MANAGEMENT COMPENSATES FOR HIGHER NEEDS OF SPECIALTY BUSINESSES



→ H1 2016 inflated for 2.8% by receivable on Inovyn exit price

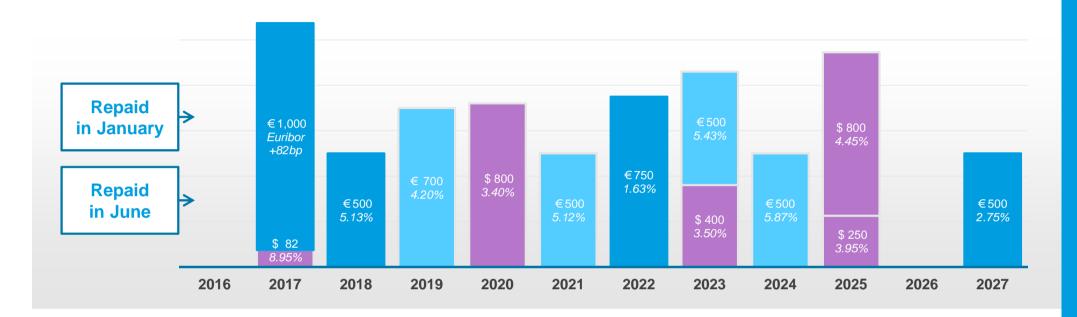
- → Working capital management efforts offset higher working capital needs of increasing share of specialty businesses in portfolio
  - Higher growth profile
  - Cytec acquisition

#### Committed to further optimization



29/07/2016

#### **DEBT PROFILE** BALANCED MATURITIES ALLOWING FLEXIBILITY



Major debt 31/12/2015 30/06/2016

	Face value	Average duration	Average cost	Face value	Average duration	Average cost
EUR bonds [1]	3,550	4.1	2.88%	2,750	4.8	2.07%
EUR perpetual hybrid bonds [2]	2,200	6.1	5.07%	2,200	5.6	5.07%
USD bonds	2,142 [3]	7.5	4.03%	2,101 [3]	7.0	4.03%
Total major debt	7,892	5.6	3.80%	7,051	5.7	3.59%
	: C		<u> </u>	: C		<u> </u>

in years in € m in years in € m

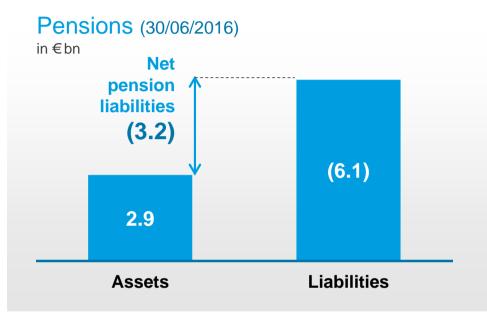


<sup>[1]</sup> Including 2016 EIB loan, paid back in January, and subordinated 2104 hybrid bond

<sup>[2]</sup> At 1st call date

<sup>[3]</sup> USD 2,332 m

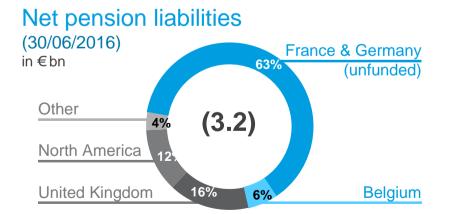
#### NET PENSION LIABILITIES [1] **UP ON LOWER DISCOUNT RATES**



#### **Net pension liabilities increase at €3.2 bn**

- → Pension liabilities up to €(6.1) bn following discount rates drop after Brexit vote
- → Pension assets stable at €2.9 bn.

Cash contribution of €(49) m in Q2 2016 (vs €42m in Q2 2015 excluding Cytec)



#### Discount rate evolution [2]

Currency	30/06/2016	31/12/2015	Change
EUR	1.25%	2.25%	(1) pp
GBP	2.75%	3.75%	(1) pp
USD	3.75%	4.25%	(0.5) pp

All presented figures are for continuing operations only



<sup>[2]</sup> Average discount rate on post employment benefit related liabilities applicable to high quality corporate bonds in EUR. GBP and USD zones



## **ANNEXES** Additional Q2 2016 financial data Forex sensitivity & other financial considerations Solvay general information 31



#### UNDERLYING EBIT(DA) CONSIDERATIONS FOR 2016

#### **Excellence**

- Excellence programs on course to reach target
  - €800 m cumulative by YE16 vs 2013 cost base
  - > € 600 m delivered in 2014-2015
- Cytec integration synergies
  - Cost savings estimated > € 100 m by 2018
  - Revenue synergies on top

#### **Depreciation & amortization**

- Underlying depreciation & amortization expected at ~€ (800) m (excluding PPA amortization)
- PPA amortization of ~€ (370) m, consisting of PA impacts from Rhodia, Cytec and other smaller acquisitions (e.g. Chemlogics, Ryton)

#### **Scope effects**

- Acquisitions in 2015
  - Cytec full consolidation as of January 1, 2016
  - Small acquisition in 2015: EPIC
- Divestments in 2015
  - Refrigerants in May 2015: net sales of ~€50 m in 2014
  - PCC in November 2015: net sales of ~€60 m in 2014



#### OTHER EBIT(DA) CONSIDERATIONS FOR 2016

#### Forex sensitivity

- Immediate impact on conversion exposure
- Deferred transactional impact due to hedging (6-12 month rolling basis)
- Mainly linked to USD
  - Sensitivity in 2016:
    - ~ € 120 m REBITDA per (0.10) \$/€
  - ~60% conversion, ~40% transactional
- Other forex exposures
  - JPY, CNY, THB, BRL, KRW, RUB
- Total conversion impact on underlying EBITDA of € (26) m in H1 2016, vs. € 100 m in H1 2015.
- Evolution of main currencies Solvay is exposed to:

/€	USD	JPY	BRL	RUB	CNY	KRW	THB
H1 2016	1.116	124	4.13	78.39	7.29	1319	39.55
H1 2015	1.115	134	3.31	64.59	6.94	1226	36.76
Change	0.0%	-7.2%	24.9%	21.4%	5.2%	7.5%	7.6%

As of end of Jun 30, Source ECB

#### **Underlying adjustments to IFRS figures**

- > To improve comparability of results over periods
- Exclusion of
  - Amortization of PPA and inventory step-up from acquisitions
  - Impact of portfolio management and reassessments
  - Legacy remediation and major litigations
  - Exceptional financial elements, such as hyperinflation
  - Impact of change in rates on discounting charges
  - Tax impacts related to previous periods
  - Valuation impacts of discontinued operations
- Reclassification of
  - Coupons of perpetual hybrid bonds as net financial charges (considered as equity under IFRS)
  - Financial charges RusVinyl as net financial charges (only realized gains/losses)
- Impact of the above on tax and share of noncontrolling interests



#### **UNDERLYING FINANCIAL & TAX CONSIDERATIONS IN 2016**

#### **Cost of borrowings**

Total underlying financial charges expected at ~€ (350) m (incl. perpetual hybrid bonds)

- Financial charges from major senior debt (excl. perpetual hybrid bonds)
  - 2016 charges expected at ~€ (150) m
  - At end Q2'16, average cost 2016 is 2.9% (2015: 5.2%) vs 3.3% before reimbursement of EIB loan of € 300 m reimbursed in January and € 500 m hybrid bond in June 2016.
- Coupons from perpetual hybrid bonds (considered as Dividend & Equity under IFRS)
  - 2016 cash out of € (84) m: Q2 € (57) m / Q4 € (27) m
  - From 2017 onwards € (112) m: Q2 € (84) m / Q4 € (27) m
  - → Average cost : 5.1%
- Other elements ~€ (90-100) m
  - Currency swaps & Other debt in consolidated subsidiaries
  - Financial charges RusVinyl<sup>[2]</sup>: ~€ (25) m

#### **Discounting of pensions and HSE**

- P&L: ~€ (100) m (¾ pensions, ¼ HSE)
- Sensitivity to change in discount rates <sup>[1]</sup>:
   ~€ (360) m / 50bp
  - Pensions (in OCI)
    - €-zone ~€ (140) m USA ~€ (80) m
    - UK ~€ (120) m
       Others ~€ (10) m
  - HSE (in P&L): €-zone ~€ (10) m

#### Tax rate

Underlying tax rate (adjusted for PPA and other factors) expected stable in the low ~30s



#### OTHER CONSIDERATIONS FOR 2016

#### **Discontinued operations**

- Indupa chlorovinyls business in Latin America
  - Agreement reached on 02/05/2016 to sell to Brazilian chemical group Unipar Carbocloro for EV of US\$ 202 m, subject to closing conditions
  - ~€ (50) m in CTA to be recycled through P&L at exit
- European chlorovinyls until June 30, 2015
  - Now part of Inovyn JV

#### **Inovyn JV**

- Beginning of July 2016, Solvay has completed the divestment of its shareholding in Inovyn, bringing to an end its chlorovinyls joint venture with Ineos.
- Solvay received exit cash proceeds amounting to €335 million.

#### **Cash flow elements**

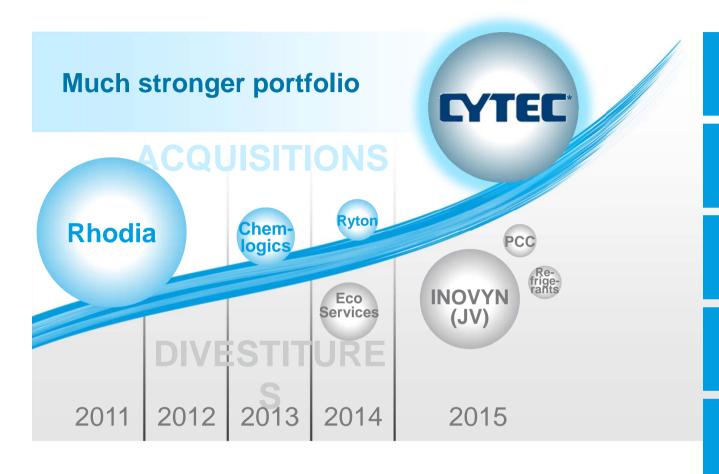
- Cash expenses for pensions:€ (180) m € (200) m
- Capital expenditure: ~€950 m



## **ANNEXES** Additional Q2 2016 financial data Forex sensitivity & other financial considerations Solvay general information



#### SOLVAY GROUP IN TRANSFORMATION



More global

More diversified

Higher sustainability

More innovative

More resilient



FURTHER UPGRADE TO COME FROM DIVESTITURES

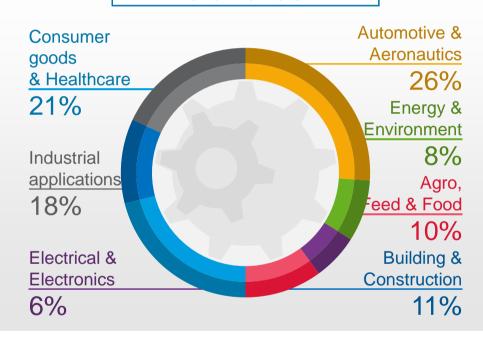


## DIVERSIFIED & RESILIENT MARKET EXPOSURE





#### Diversified & higher growth end-markets



**20,910** employees



53 countries



industrial sites

145

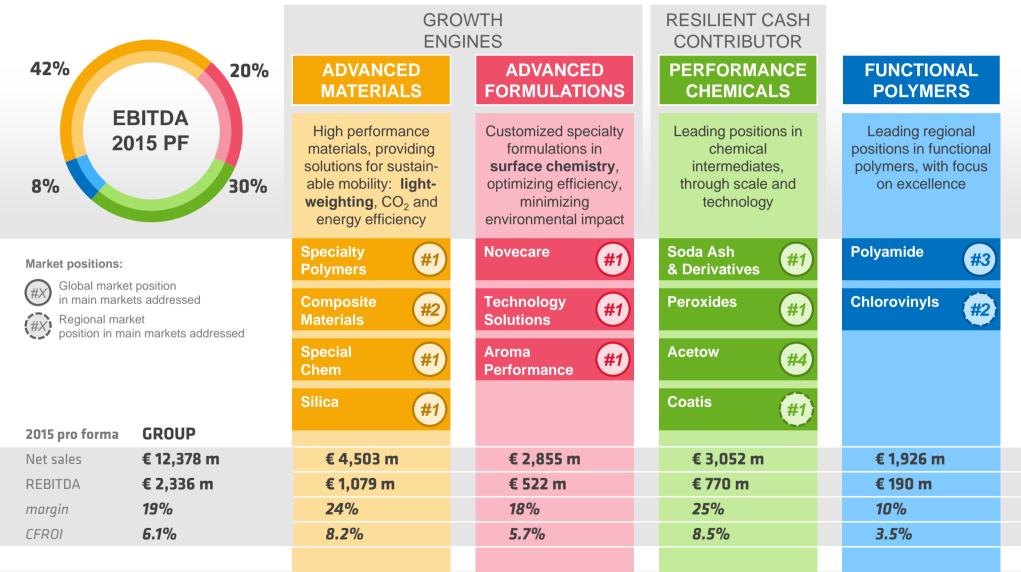


21

main R&I centers



## ALIGNED BUSINESS SEGMENTS STRATEGICALLY COHERENT TO DRIVE RESULTS





## UNIQUE LIGHTWEIGHTING OFFERING DRIVING SUSTAINABLE MOBILITY

#### Solvay's unique portfolio BROADEST HIGH-PERF. POLYMER RANGE Polymers & alloys **Thermoplastic Thermoset** polymers & resins & allovs formulations **Fiber** reinforced Composites **Foams** thermoset & compounds thermoplastics (short & long ntermediates Downstream Sandwich structures CREATING **NEW** CLASSES OF MATERIALS

#### Driving sustainable mobility

#### **AUTOMOTIVE**

## Under the hood ☑ Battery tray ☑ Upperbody/hood □ Chassis □

Applications

Customers & collaborations

#### **AEROSPACE**

Primary structure 
Secondary struct.

Jet engines 

Cabin interior 

✓





#### PROVIDING SOLUTIONS

- Lightweight materials for transportation
- → Production cycle time acceleration
- Total cost reduction



#### **UNDERPINNED BY**

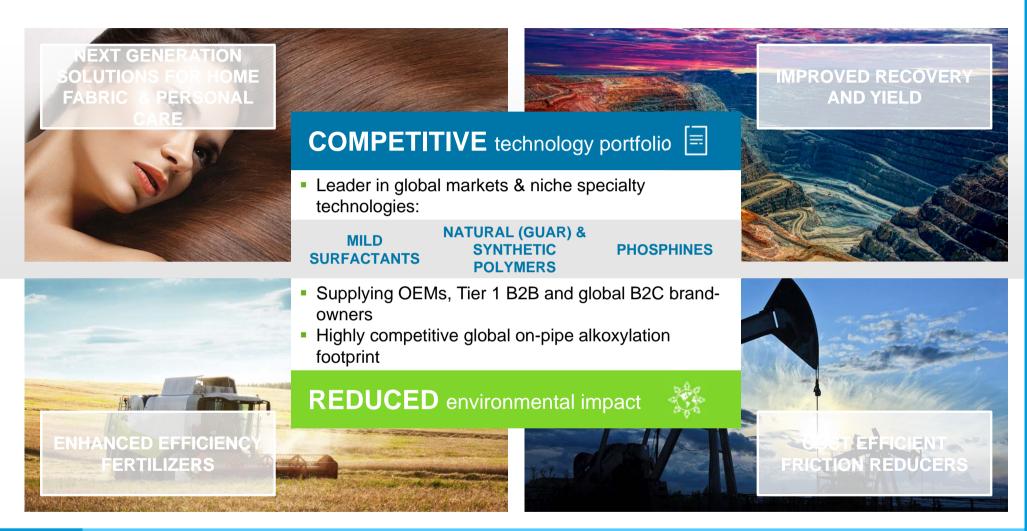
- → Reduction of fuel consumption
- → Decreasing CO₂ emissions
- → Increasing driving autonomy

#### Supported

by regulatory framework for cleaner vehicles (aeronautics in discussion)



## BROAD OFFERING OF INNOVATIVE FORMULATIONS MODIFYING SURFACE CHEMISTRY & FLUID BEHAVIORS





USING CUSTOMER INTIMACY & MARKET FOCUS AS CRITICAL SUCCESS FACTORS



## COMMITTED TO SUSTAINABILITY

SOLVAY
Contribute to Society

### Innovate Sustainable solutions

Light-weighting materials
Sustainable energy
Ecofriendly materials

Air and water care Smart and efficient processes

### Act Responsibly

Operating responsibly

Empowering people

#### SOCIETAL ACTIONS

**x2** 

Employees involved in societal actions

#### SPM

**50**%

Share of sustainable solutions in the Group portfolio

#### PEOPLE MANAGEMENT

80%

Employee engagement index

CO<sub>2</sub>

-40%

Reduction of carbon intensity

#### **SAFETY**

-50%

of occupational accidents with MTAR target < 0.50



SOLVAY'S

BY 2025

**VS YE 2014** 

COMMITMENT



