



# Strategic Restructuring of Sanofi Alliance

January 7, 2018

# Agenda

## Welcome

- Christine Regan Lindenboom  
Vice President, Investor Relations & Corporate Communications

## Overview of Alnylam-Sanofi Alliance

- John Maraganore, Ph.D.  
Chief Executive Officer

## Restructured Alliance Product Rights and Economic Terms

- Yvonne Greenstreet, MBChB  
Executive Vice President, Chief Operating Officer

## Commercial Implications for ATTR Amyloidosis Programs

- Barry Greene  
President

## Q&A Session

# Alnylam Forward Looking Statements

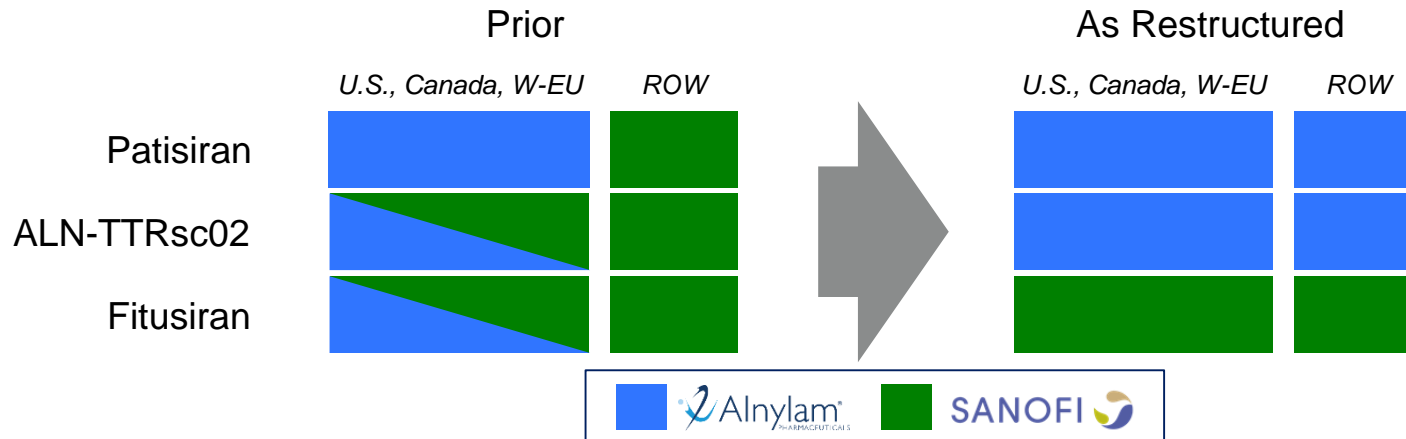
This presentation contains forward-looking statements, within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. There are a number of important factors that could cause actual results to differ materially from the results anticipated by these forward-looking statements. These important factors include our ability to discover and develop novel drug candidates and delivery approaches and successfully demonstrate the efficacy and safety of our product candidates; pre-clinical and clinical results for our product candidates; actions or advice of regulatory agencies; delays, interruptions or failures in the manufacture and supply of our product candidates; our ability to obtain, maintain and protect intellectual property, enforce our intellectual property rights and defend our patent portfolio; our ability to obtain and maintain regulatory approval, pricing and reimbursement for products; our progress in establishing a commercial and ex-United States infrastructure; competition from others using similar technology and developing products for similar uses; our ability to manage our growth and operating expenses, obtain additional funding to support our business activities and establish and maintain business alliances; the outcome of litigation; and the risk of government investigations; as well as those risks more fully discussed in our most recent quarterly report on Form 10-Q under the caption “Risk Factors.” If one or more of these factors materialize, or if any underlying assumptions prove incorrect, our actual results, performance or achievements may vary materially from any future results, performance or achievements expressed or implied by these forward-looking statements. All forward-looking statements speak only as of the date of this presentation and, except as required by law, we undertake no obligation to update such statements.

John Maraganore, Ph.D.  
Chief Executive Officer

# Overview of Alnylam-Sanofi Alliance

# Recent News: Strategic Restructuring of Sanofi Alliance

Alnylam and Sanofi have restructured alliance to streamline and optimize product development and commercialization



## Alnylam obtains global rights to ATTR amyloidosis products, Sanofi obtains global rights to fitusiran

- Opportunity to maximize value of all product opportunities on global basis
- Alnylam to receive 15-30% royalties on global fitusiran sales
- Sanofi Genzyme to receive up to 25% royalties on ROW patisiran sales and 15-30% royalties on global ALN-TTRsc02 sales

## Global ATTR amyloidosis product rights expected to unlock significant value creation opportunity

- Aligns patisiran and ALN-TTRsc02 development and commercialization efforts
- Enables comprehensive development of both products across full spectrum of ATTR amyloidosis disease
- Establishes global footprint for givosiran and future Alnylam products

**Yvonne Greenstreet, MBChB**  
**Executive Vice President, Chief Operating Officer**

# **Restructured Alliance**

## **Product Rights and Economic Terms**

# Anylam-Sanofi Alliance Restructuring

## Restructuring of product rights

- Anylam obtains global rights to RNAi programs for ATTR amyloidosis: patisiran and ALN-TTRsc02
- Sanofi obtains global rights to fitusiran for hemophilia and rare bleeding disorders

## Economic alignment enables participation in commercial success

- Anylam and Sanofi each to receive reciprocal tiered royalties of 15-30% on net global sales of fitusiran and ALN-TTRsc02, respectively

## Sanofi to receive royalties on patisiran up to 25% of net sales in ROW

- In Japan, 25% royalty applies from date of commercial launch
- No royalties will be paid on patisiran sales in U.S., Canada or Western Europe

## Anylam to receive \$50M milestone payment following dosing of first patient in ATLAS Phase 3 program for fitusiran

- No additional milestones due to either party for patisiran, ALN-TTRsc02 or fitusiran

## All other material terms of 2014 alliance remain unchanged

- Sanofi maintains opt-in rights for genetic medicine programs developed through end-2019 following completion of proof-of-concept studies
- Sanofi has one remaining global opt-in right

**Barry Greene**  
**President**

# **Commercial Implications for ATTR Amyloidosis Programs**



# Patisiran Pathway to Market

## Building a Customer-Centric Organization

Only product in hATTR amyloidosis, investigational or approved, to demonstrate disease reversal\*



- ✓ Fast Track
- ✓ Orphan Drug Designation
- ✓ Breakthrough Status
- ✓ NDA submitted
- FDA approval
- U.S. launch



Staged build of >250 employees in customer-facing activities WW



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

- ✓ Accelerated Assessment
- ✓ MAA submitted
- EMA approval
- Reimbursement
- EU launch



Ongoing patient ID efforts in U.S./EUCAN, expanding WW



- J-NDA submission
- ROW submissions
- Japan launch
- ROW launches

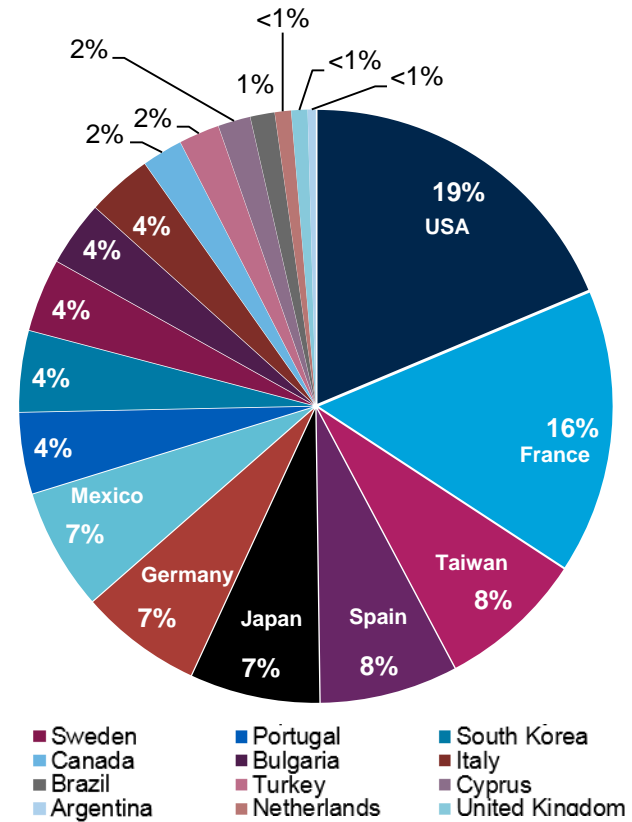
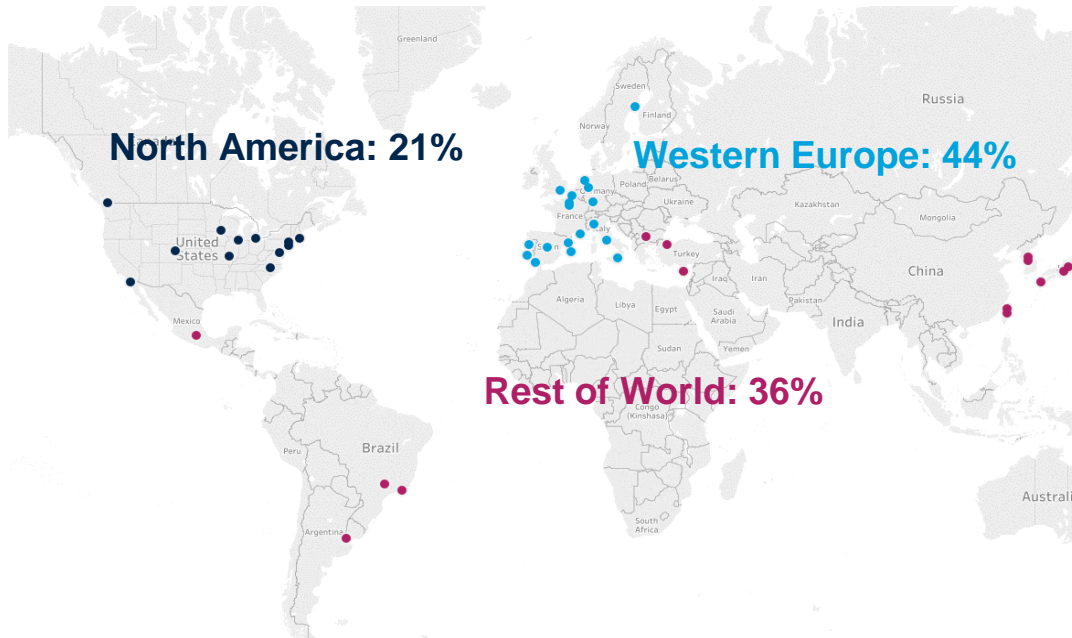


Manufacturing and supply chain for U.S./EUCAN, expanding WW

# APOLLO Phase 3 Study

## Study Enrollment

225 patients with hATTR amyloidosis with polyneuropathy from 44 sites in 19 countries enrolled between Dec 2013 and Jan 2016



\*North America: USA, CAN; Western Europe: DEU, ESP, FRA, GBR, ITA, NLD, PRT, SWE; Rest of world: Asia: JPN, KOR, TWN, Eastern Europe: BGR, CYP, TUR; Asia: JPN, KOR, TWN; Central & South America: MEX, ARG, BRA

# Raising hATTR Awareness and Improving Care

## Diagnosis, Education, Patient Support, and Access are Key Priorities

### Diagnosis



- Started 2014, expanded in 2016
- Free genetic screening
- Now includes panels for neuropathy, cardio
- >350 physicians enrolled; >3000 tests, identified ~300 patients with hATTR mutations



- Screened heart failure patients for prevalence of TTR mutations
- >1000 enrolled, identified 77 patients with hATTR mutations

### Education

#### HCP Website



[hATTRamyloidosis.com](http://hATTRamyloidosis.com)

#### Patient Website



[hATTRbridge.com](http://hATTRbridge.com)

### Support

#### Care Days

- Local support program in partnership with local KOLs
- Agenda includes disease overview, tips for living with hATTR, and support and resources
- 4 programs hosted in 2017; total attendance over 100 people

#### Advocacy

- Working collaboratively to improve care for hATTR

### Access

#### Expanded Access Program

- Providing expanded access to patisiran to patients who meet program criteria
- Now open at >15 sites in U.S.; compassionate use ongoing in EU

#### Alylam Patient Access Principles

#### Data

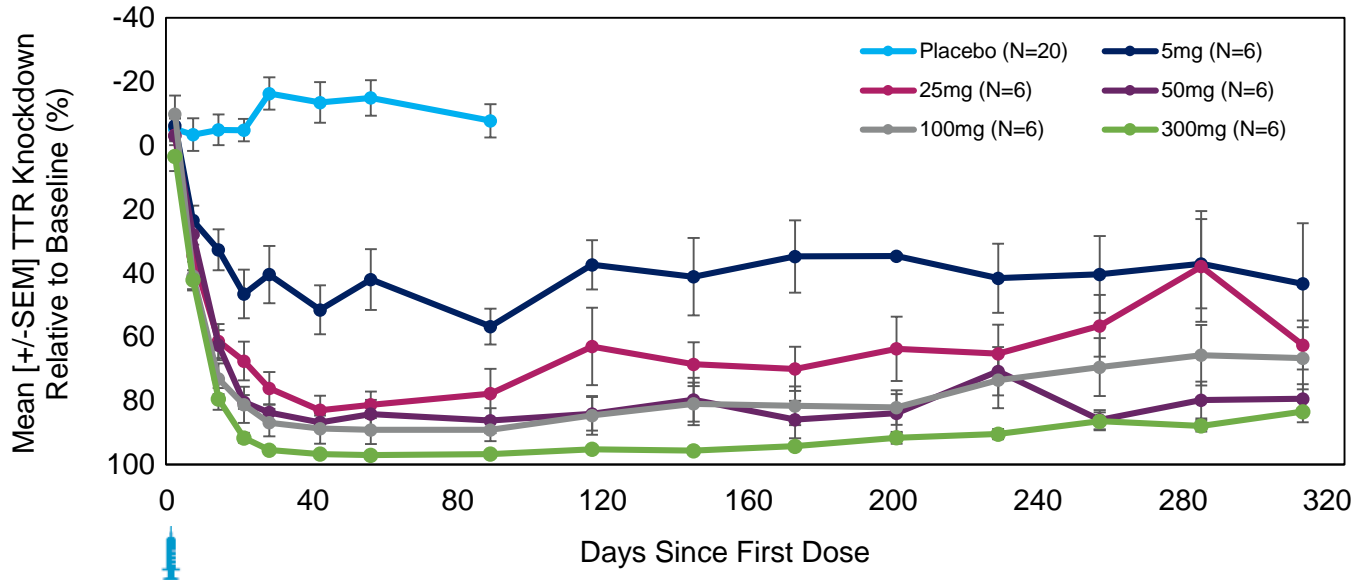
#### Big Data Projects

- Integrating data sources to inform MD targeting for field engagement

# ALN-TTRsc02 Opportunity

## Advancing Continued Innovation for Patients with ATTR Amyloidosis

Phase 1 Study – Healthy Volunteers



**Mean max TTR KD of 97.1%;  
~80% TTR KD at nearly 1 year  
after single 50 mg dose\***

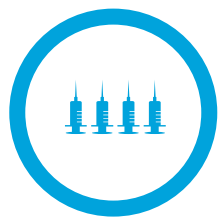
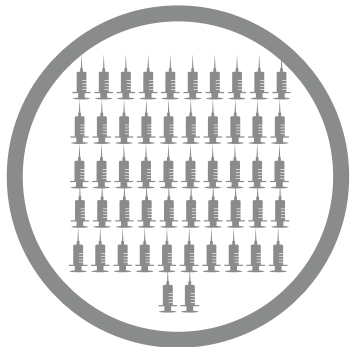
**Safety (N=80):**

- No SAEs and no discontinuations due to AEs
- All AEs mild or moderate in severity

Inotersen

52

DOSES PER YEAR



ALN-TTRsc02

4

DOSES PER YEAR ANTICIPATED

Expect to initiate Phase 3 study in **Late 2018**



\*As of data cutoff on 31May2017

# ALN-TTRsc02 Market Opportunity\*

## Potential for Significant Expansion in ATTR Amyloidosis



**hATTR  
amyloidosis**



**Asymptomatic  
hATTR carriers**



**Wild-type  
ATTR amyloidosis patients**

# Anylam Clinical Development Pipeline

Focused in 3 Strategic Therapeutic Areas (STArS):

- Genetic Medicines
- Cardio-Metabolic Diseases
- Hepatic Infectious Diseases

		HUMAN POC <sup>1</sup>	BREAKTHROUGH DESIGNATION	EARLY STAGE <i>(IND or CTA Filed-Phase 2)</i>	LATE STAGE <i>(Phase 2-Phase 3)</i>	REGISTRATION/ COMMERCIAL <sup>2</sup>	COMMERCIAL RIGHTS
<b>Patisiran</b>	<i>Hereditary ATTR Amyloidosis</i>					<span style="color: blue;">●</span>	Global
<b>Givosiran</b>	<i>Acute Hepatic Porphyrias</i>				<span style="color: blue;">●</span>		Global
<b>Fitusiran</b>	<i>Hemophilia and Rare Bleeding Disorders</i>				<span style="color: blue;">●</span>		15-30% Royalties
<b>Inclisiran</b>	<i>Hypercholesterolemia</i>				<span style="color: magenta;">●</span>		Milestones & up to 20% Royalties
<b>ALN-TTRsc02</b>	<i>ATTR Amyloidosis</i>			<span style="color: blue;">●</span>			Global
<b>Cemdisiran</b>	<i>Complement-Mediated Diseases</i>			<span style="color: blue;">●</span>			Global
<b>Lumasiran</b>	<i>Primary Hyperoxaluria Type 1</i>			<span style="color: blue;">●</span>			Subject to partner option rights

<sup>1</sup>POC, proof of concept – defined as having demonstrated target gene knockdown and/or additional evidence of activity in clinical studies

<sup>2</sup>Includes marketing application submissions

**Anylam–Sanofi Alliance**

# **Q&A Session**



**THANK YOU**