

#### **Ströer Capital Markets Day**

London, April 2018

## "The most customer-centric, multi-channel media company in/from Germany."

#### **Current Key Questions from Analysts' and Investors' Communities**





#### **Capital Markets Day London 2018: Agenda and Focus Areas**

Morning Session: Focus on Strategy and Segments			Afternoon Session: Focus on Source of Business		
10:00	Welcome and Agenda	CL	13:15	Lunch and Q&A	
10:15	Strategic Review and Update 2018	UM	14:00	Update on Statista	FS
10:45	Deep Dive Out-of-Home Media	CS	14:30	Deep Dive Monetization National	RB
11:15	Deep Dive Content Media	CS	15:00	Deep Dive Monetization Regional and Local	CvB
11:45	Deep Dive Direct Media	CS	15:30	Trending Topics AI, AR, Blockchain, Smart Places	CvB
12:15	Financials and Q&A	BM	15:45	Summary, Wrap-Up and Closing Remarks	Board

# **Strategic Update**



# **Moving Fast & Faster**

# Everything

# Everywhere

# Anytime

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## Digitization has reversed the balance: There is more supply of (almost) everything than demand.

# Buyer dominates, not seller: The consumer is the boss!

# Consumer & Customer Centricity wins!

# The world's largest taxi company owns no vehicles.

# UBER

# The largest accommodation provider owns no real estate.

# The most popular media provider creates no content. FACEBOCK

# The most valuable retailer has no own inventory. ALIBABA

## Global platforms have developed a **new form of CRM business:** Controlling customer access and then doing 'CRM arbitrage'.

#### **Consumer Access for Advertisers has changed dramatically**

Traditional value-chain business model Linear and one way



#### We listen to our Customers: Their Challenges in the Age of GAFA



#### **Consumer Access for Advertisers has changed dramatically**





#### **Clients have a growing Demand for alternative CRM Models**



**Direct Media** 

#### **Trusted Partner to operate Direct Marketing in the digital Age**



## **Customer centric Strategy leads to increasing Relevance and strengthens Partnerships with major Brands**



OoH Media

Content Media

Potential development

#### **Top Clients – Overall enhanced Opportunities**



#### **Complementing integrated Brand-Performance-Sales Funnel**



Data aggregation

#### Ströer – Already a strong Player in Direct Marketing



#### Capture new Business Segments: Ströer's general Strategy



#### **Milestones of Ströer's strategic Development**



Out-of-Home Media	
(Location Based Advertising)	

Content Media (Digital Content & Marketing Services)

> Direct Media (D2D, Phone etc.)



## **Deep Dive Business Segments**



# Customer centric Sales Organization Set-Up allows efficient Access to the largest Media Client Base in Germany



#### **Customer Centricity: Customized for SMBs and large Customers**





#### **Out-of-Home Media** Location Based Advertising





#### **Out-of-Home (& Content Media): A strong Base Platform**



Net sales 2017, sources: Total market based on Schickler, OVK-Report 2017, Statista



#### **Out-of-Home on the Rise**



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Source: Nielsen Media Research, gross advertising without advertising mail \*OoH incl. billboard, transport media incl. Public Video and Infoscreen, at-retail-media incl. Mall Video, ambient media

#### Portfolio and Sales Structure in OoH Media

Ideally suited to support optimal Yield Monetization



#### **Reasons for sustainable Growth in OoH Media**


## **Out-of-Home Media** Location Based Advertising





## **Out-of-Home Media is digitally transforming**



## **Digital OoH Portfolio Strategy**

**Public Video Network** (Premium traffic and shopping POIs)



### Roadside Screens (RSS, DCLB, DCLP)



**POS/Digital Signage** (Food & other channels)\*





Source: In-house, DMI – Digital Out of Home Standorte Screens 2018-02-15.1.pdf; \*excluding rights of promotion

## Infoscreen – 70% Portfolio Growth Rate



### At highly frequented subway and suburban train station platforms and airports

- 500 screens nationwide in operation
- 120 screens constructed in 2017
- Planned for 2018: Additionally >100 screens

## **Station Video – Continuous Expansion of Capacity**







### At highly frequented main train stations

- 1,250 screens nationwide in operation 150 screens built up in 2017
- Enhancing the local reach with upgrading cities like Hamburg, Frankfurt and Cologne
- Highlight: 30 screens on train station 'Hamburg Jungfernstieg'

## **160 additional Screens in Mall Video**

### **LOOM Bielefeld**



### Mall Video is part of LOOM from day one

The ECE Projektmanagement GmbH, Germany's biggest shopping mall provider, opened the new mall "LOOM" in Bielefeld on 25<sup>th</sup> of October 2017. As long-term contract partner of ECE, the Mall Video installation with 58 screens was integrated in the planning process of the mall and ready to be sold by the opening day.

### **Stachus Passage Munich**



**Expansion of Mall Video in Munich** 

In addition to three already equipped shopping malls in Munich, the STACHUS Einkaufspassage with more than 50k visitors per day below the Karlsplatz had twelve 60" Mall Video screens installed. In Q1/2018 the replacement of seven analog CLPs by digital screens will follow as well.

### myZeil Frankfurt



### Part of refurbishment concept

In the process of the refurbishment, the Mall Video screens became part of the extravagant design of the myZeil in Frankfurt. Beside 55" screens also 110" screens on the wall.

### **Waterfront Bremen**



### Bremen received 2<sup>nd</sup> Mall Video installation

With Media Markt and Primark as anchor tenant, the Waterfront became part of Mall Video with twelve digital screens in 2017.





## **Roadside Screens – More than 200 Screens live**





### Continuous expansion within the digitization strategy

- 200 screens in 21 cities live on air, e.g. Cologne (48), Hamburg (30), Essen (13)
- 152 screens built up in 2017
- Construction of another 200 screens is planned

## **Roadside Screens – Continuous Expansion of Capacity**



## **Roadside Screens – The Medium for each Client Cluster**

The digital Window to local Businesses – As Campaign or long-term Advertising



Medium-sized

Regional key account



## Megavision and SignYou – Launch of a new Category

### Dusseldorf



Essen



### **Oberhausen I**



Oberhausen II



## **POS/Digital Signage – Integration of new Products**

In 2017, Ströer has acquired the majority in the UAM Media and Neo Group:

- Both are large providers of local digital Out-of-Home advertising
- With this acquisition, Ströer markets a network of more than 73,000 digital screens
- The new network ideally complements the integrated offering along the entire customer journey – from home, to road and rail to POS

### Touchpoints:





## **Out-of-Home Media** Location Based Advertising





## **Operational Excellence – Key to Enhancement of Quality**



It takes at least 2-5 years to realize a city contract up to 80-90%

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## Balanced Source of Inventory

Significant Extension in the Portfolio Area on private Property





### More than 75,000 sites on private ground

- Deutsche Bahn: +42,000 sites
- Private ground: +33,000 sites (incl. other partners)
- Other partners: REWE, ATU, Strabag (Deutsche Telekom Immobilien), Shell, Tamoil, Metro, Carglass etc.

## Reaching Customers on the Way to and at the Point of Sale

Retail Media GmbH founded in 2017

### Access road



- Reach your target audience in the access route
- Guidance of buyer streams into the market
- Reaches both existing customers and new customers
- Frequency strong and relevant



Gateway

- Targeted influencing of the market, product and brand choice through current offers
- Promotion of spontaneous market visits & product purchases
- Targeting with minimal waste of attention/contacts

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**Parking lot** 

- Last impulse provides orientation and recognition on the shelf
- Optimal addition to the promotion in the supplement

## **Constant Quality Improvements**

Ströer is one of the Drivers of digital Transformation



### More than half of CAPEX in 2017 was invested in our digital OoH portfolio

Digitization is changing our cities and urban politics. It creates new information and interaction opportunities, but also new challenges. In addition to smartphones and corresponding apps, digital media in public spaces also facilitates the flow of information between the city and its citizens.

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# By pushing Public Video also more towards Programmatic, we make much better use of our Inventory



## **Convergence: Online and Public Video complete each other**

### Performance

- All in one: All screens one broadcast
- Classic and programmatic booking
- Theme channels on all screens incl. Public Video
- Near real time broadcasting

### Benefit

- Interaction of digital and physical world as an important part of modern communication strategies
- Numerous content categories corresponding to online
- NEW: Target group bookings also with Public Video (fitting, location-specific)
- Easy extension of online campaigns



## **Out-of-Home Media** Location Based Advertising





## **Moss Growth for Air Purification**

**Neutralizer** for emissions such as particulate matter and nitrogen oxides

> **Natural** holds water back, lowers the temperature

**Improves Urban Climate** good for organic diversity, reduces noise and reflections

**Easy** to install, specialized varieties for this purpose

### Ströer moss technology

Ströer works with leading moss experts and biologists to develop specific solutions for the purification of city air.

### **Development patent system**

Ströer has developed and patented a system that makes efficient use of the available space in inner cities: Mosstree®.

### Added value for cities and communities

Ströer also offers municipal partners the opportunity to test tailor-made solutions for the air emissions problem.

### **Benefit**

No additional irrigation good ventilation and filter performance usable on existing Ströer products.



### **Location Based Advertising equipped with Sensors** Interesting Offer for Cities in Times of increasing Population





## Summary Out-of-Home Media

Location Based Advertising





## **Content Media** Digital Content & Marketing Services







## Market Share Content in long-term Trend

Development Internet/Desktop incl. Mobile\* over time



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Source: Nielsen Media Research, gross advertising without advertising mail; \*Mobile (MOB): as of 2011

### Online Sales shifting more and more towards Mobile Development Internet/Desktop incl. Mobile\* over time



Source: Nielsen Media Research, gross advertising excl. direct mail; \*Mobile (MOB): as of 2011

## **Ströer outperforms Market in Growth Areas Mobile & Programmatic**



\*OVK (Online-Vermarkterkreis) 2017 > German industry standard; \*\*Ströer 2017; \*\*\*emarketer 2017, IAB internet advertising revenue report

## **Content Media** Digital Content & Marketing Services



**Balanced Portfolio and Inventory** 





## **Strategic Portfolio Management of Ströer Content Group Assets**



## T-Online: Development of Financials Steadily improved EBITDA Margin



### **Development of T-Online Traffic – Long-term Trend** Successful Turnaround of Visits

Visits in millions per year



### **Development of T-Online Traffic – Scope latest Development** Successful Turnaround of Visits

Visits in millions per month



Visits 2018 based on the development year-to-date 2018

## **From Portal to Media Brand – Three Cornerstones**



## **User Experience: Layout**

Clear, transparent, focused



**Kostenlos** 

Zwei Männer durchsuchen in Aleppo (Syrien) die Trümmer: Durch den Bürgerkrieg sind 11,3 Millionen Syrer auf der Flucht. (Quelle: dpa)

Eine halbe Million Tote, 11 Millionen Menschen auf der Flucht: Der Krieg in Syrien geht ins siebte Jahr und ist eine Schande für die Welt. Mit der Türkei und Amerika stehen sich zwei Nato-Partner feindselig gegenüber. Daran findet Russland großes Wohlgefallen.

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Senden

Für mich ist Syrien ein schwarzes Loch, in das alle hineinfallen, die den Krieg betreiben und den Frieden nicht wollen. Sie



Jeder gegen jeden und Putin gegen

Ein Kommentar von Gerhard Spörl 30.01.2018, 21:20 Uhr



Zwei Männer durchsuchen in Aleppo (Syrien) die Trümmer: Durch den Bürgerkrieg sind 11,3 Millionen Syrer auf der Flucht. (Quelle: dpa)


# Unique multi-channel Approach

T-Online as the Centerpiece of Public Video and Digital Out-of-Home

Digital Out-of-Home infrastructure of Ströer enables a multi-channel approach that is not possible to be imitated by competitors of t-online.de

t-online.de is established as THE central content provider for Public Video/ Digital Out-of-Home

Brand reach of t-online.de thereby increases massively, as well as the perception of t-online.de as a media brand



### **T-Online Brand Reach: 80% of the digital Population in Germany**

#### For comparison (uu in million) acc. AGOF only\*\* Voice **Public Video** T-Online.de 29.59 47 million unique user\* Bild.de 23.32 **Online & Smartphone Desktop Public Video Spiegel Online** 21.17 Tablet Laptop

\*GfK Media and Communication Research – study unique user (2017): t-online.de desktop & mobile and Public Video; \*\*AGOF digital facts 2018-03, unique user in million in March 2018, at the age of 10+, users of stationary and for mobile offers (61.58 mio.)

#### **Facts & Figures** Media Brand Perception is growing

#### **Reasons for visiting\***





#### Ströer takes watson.ch to Germany For the mobile Generation

Newsportal for Generation Z, grown up with mobile, not with newspapers.



#### 'You are desired' – Online Magazine for millennial Women

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Market leader in the women & lifestyle segment and tailored precisely to the target group.

- Mobile with the fastest possible loading times
- Optimized content
- Customized content
- Smart personalization





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#### **Content Media** Digital Content & Marketing Services

Owned and Operated Platforms

**Market Environment** 

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Balanced Portfolio and Inventory





# **Strong Market Position: Audience Coverage versus Competition**



December 2017, Source: AGOF12/2017 daily digital facts; Unique user in mio. at the age of 10+, across all devices (desktop & mobile); Weekly and daily reach: Ø



### **Balanced, thus robust Product and Inventory Portfolio**



#### The Foundation of Online Marketing is a dominant Market Position as well as the continuous Development of our Supply Side



Source: AGOF digital facts April 2018; \*Unique user in % in March 2018, at the age of 10+, users of stationary and for mobile offers (61.58 mio.)

#### **Direct Clients and Programmatic gains Relevance**

#### Revenue decomposition 2016



#### Revenue decomposition 2017



#### **Content Media** Digital Content & Marketing Services

**Market Environment** 

**Owned and Operated Platforms** 

Balanced Portfolio and Inventory





#### **Ströer Core is the Key to Success**



# **Continuous Development of Platforms**

Enhanced by +100 Engineers



### **Building a competitive Data Pool**

Unique logins in million



### **Cross-Media Targeting Solutions based on German Data Pool**

#### Demographic/hard facts age | gender | HHNI | education | activity | children etc. Shopping behavior supermarket | discounter | wholefood shop | online | specialized trade etc. Weather temperature | clouds | storm |

fog | sun | rain | snow

#### Prospecting

Modeling brand-affine users with the help of statistical twins

#### Intent

Purchase intention (car), e.g. by class or brand | moving intent etc.

#### Geographic

countries | states | cities | postcode areas | double select



#### **Customized audiences**

Individual target groups according to customer agreement, e.g. pizza consumers

#### Individual retargeting

Retrieving tagged users, e.g. shop or website visit

#### Technical

FC | time | browser | device | OS | mobile device | language etc.

#### **CRM-onboarding**

list based uploads & matchmaking

#### Interest

automobile | movies | finance | fashion | insurance | travel | sport etc.

#### Contextual/semantic

real-time content analysis | brand safety | keywords

### **GDPR & ePrivacy: The bigger Picture**



- Even if ePrivacy rules and execution are unclear: best prepared to win market share when pure intermediate business gets under growing pressure
- Strong direct client access via industry key accounts will ensure best access to potentially changing budget allocation
- Investment in own/integrated tech and proprietary 1<sup>st</sup> party data (including cooperations) ensures maximum independence from 3<sup>rd</sup> party tracking
- Focus on owned assets in combination with exclusive 3<sup>rd</sup> party premium inventory where Ströer acts as an outsourced marketing sales department

Source: Luma Partners

# **GDPR & ePrivacy: Modular Solutions for unclear Regulation**

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GDPR & current market interpretation of coming regulations (May 2018)	GDPR, §6 and the "legitimate interest" ["berechtigtes Interesse"] to use cookies for online marketing in Germany
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Potentially changing interpretation with different impact (2019ff)	Technically very different implications from user matching (e.g. frequency capping) via targeting (e.g. behavioral) to programmatic (e.g. open RTB)
GDPR-compliant solutions for tougher interpretations (2018ff)	Cookie widget developed and in place to obtain user consent and approval in combination with proprietary tech infrastructure for programmatic
ePrivacy, log-in standards and user consent management	IAB-compliant consent management & broad range of potential co-operations (incl. European netID and VERIMI) to optimize UX and coverage

# Summary Content Media

**Digital Content & Marketing Services** 





#### **Direct Media** D2D, Phone, Chat, Mail, CPO





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### **Direct Marketing opens up new strategic Business Segment**



#### **Direct Marketing Trends and Characteristics**





- Top 10 players accounting for 28% of global market share
- Business is highly scalable, large companies have been increasingly consolidating

- Most companies have less than three different CRM and direct marketing providers
- Country leading players are in a very strong position

#### **Direct Marketing Trends and Characteristics**



#### High barriers to entry



- Ability to tender for more complex contracts only few players have capacity to seamlessly execute mandates on a multi-channel scale
- Agent ramp up time high agent training investments necessary, making clients more loyal
- Technology integration Direct Marketing players often highly integrated into client's CRM processes

#### Increased demand for digital channels European direct market size



- Digital channels are gaining ground over voice channel solutions
- Voice channel remains especially important for more complex problems/products

# The Industry is developing towards a highly integrated Supply



# **Direct Marketing Ranking**



2017				international pusiness	2017 (as 2018): 2 <sup>nd</sup> place			
Rank	Company	Locations	Net Gross Income	-	Rank	Company	Locations	Net Gross Income
1	Arvato CRM Solutions	28	1,309,430,00		1	Arvato CRM Solutions	28	~ 380,000,000
2	Capita Europe	17	259,307,838		2	Ströer Group**	176	266,150,000
3	Bosch Service Solutions	13	247,700,000		3	Capita Europe	17	259,307,838
4	Teleperformance Germany	19	175,000,000		4	Bosch Service Solutions	13	247,700,000
5	Convergys/buw-Gruppe	19	165,590,014		5	Teleperformance Germany	19	175,000,000
6	regiocom GmbH	12	152,531,537		6	Convergys/buw-Gruppe	19	165,590,014
7	Ranger Marketing & Vertrieb*	150	90,973,167		7	regiocom GmbH	12	152,531,537
8	D+S communication center	13	85,602,949		8	Swiss Post Solutions GmbH	7	78,578,000
9	Swiss Post Solutions GmbH	7	78,578,000		9	Sykes Enterprises GmbH	10	72,000,000
10	Sykes Enterprises GmbH	10	72,000,000		10	walter services GmbH	7	60,542,757
11	walter services GmbH	7	60,542,757		11	Invitel Unternehmensgruppe	11	49,397,382
12	Invitel Unternehmensgruppe	11	49,397,382		12	KiKxxl GmbH	4	46,137,878
13	Avedo GmbH	6	47,252,517		13	Arteria S.A.	9	42,595,000
14	KiKxxl GmbH	4	46,137,878		14	gkk DialogGroup GmbH	4	37,844,422
15	Arteria S.A.	9	42,595,000		15	BFS Baur Fulfillment	3	30,000,000
16	DV-COM GmbH	7	42,321,367	] ′ _	16	getaline GmbH	5	24,371,110

Source: CallCenter Ranking 2017, www.callcenterprofi.de; Statista; \*Ranger included by Ströer \*\*incl. Ranger Marketing & Vertriebs GmbH



#### **Direct Media** D2D, Phone, Chat, Mail, CPO





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# Ströer Portfolio Strategy in the Direct Marketing Sector



### Ströer – Already a strong Player in Direct Marketing



### Ströer Direct Marketing Group

High density of Locations allows Resource Balancing





# Synergies across Business Segments rapidly improving



Complementing marketing offering to clients by direct marketing platform	Strong positive feedback from key clients and increasing demand in Q4 2017 I Q1 2018
2 Leveraging direct marketing platform for own SMB business	Three tests: Avedo sells local digital Ströer products, Ranger sells Out-of-Home offers, Avedo schedules SMB leads for local sales force
3 Maximizing own levers in cut-throat competition via larger trading volume with clients	Extended service portfolio pilots planned/launched with:
Group synergies on recruitment, training, data & process optimization	Staffing quality as key KPI: Recruiting funnel significantly enhanced

### **Top Clients – Overall enhanced Opportunities**





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# Successful Implementation of integrated Campaigns

Case: Telecommunication



#### **Direct Media** D2D, Phone, Chat, Mail, CPO



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### Acquiring new Consumers gets even harder



#### **Digitalized consumption**

- Content (radio, TV, print) is increasingly consumed online and on demand
- This makes linear models from traditional players less relevant and therefore decreases their reach
- At the same time, people visit stores less often as more and more retail sales shift to e-commerce

#### **Concentrated control**

- Most of content and products ordered by consumers (via order on the platform) or indirectly (via advertising on the platform) sold by one of the GAFA players
- Due to their reach and market power the prices for using/advertising on the platform increases

Average cost per newly acquired customer grows

Traditional media gradually decreases in relevance and reach

Access to consumers in online media becomes increasingly expensive





### **Great Customer Experience becomes Key Driver for Growth**



# Catalyzing to convert great Customer Experience into Growth




## **Trusted Partner to operate Direct Marketing in the digital Age**



#### **Customer demands** Ströer's supply **Build and operate** the best direct marketing platform for each of Many customers struggle our customers combining technology and human excellence to master the trend of digitization due to lack of knowledge They are hesitant to invest Human capital Technology **Data and analytics** in people and technology to ramp-up capabilities in Hiring, training and Provide best Collecting, fear of complexity and retaining agents at solution through aggregating and potential damage high standards integration of analyzing data for existing solutions, best decision They prefer to have a proprietary developmaking trusted partner to support ments, acquisitions them in navigating the **CRM** digitization Deep knowledge and understanding of excellent customer experience

#### **Direct Media** D2D, Phone, Chat, Mail, CPO



## Examples on how Digitization changes Direct Marketing



## **Recap: How we have developed our digital Content**





## Summary: Ströer's strategic Approach in Direct Media Segment



# Finance @ Ströer



### Finance



## **Steering the Ströer Group – Key Performance Indicators**

In 2017, all Key Performance Indicators of Ströer Group performed well



## **Guidance Achievement Year by Year**

	2013			2014			2015			2016			2017		
m€	Guidance	Actual		Guidance	Actual		Guidance	Actual		Guidance	Actual		Guidance	Actual	
Organic growth	Low single digit	3.5%	<b>√</b>	> 10%	11.4%	<b>√</b>	High single digit	9.8%	<b>~</b>	Mid to high single digit	7.2%	~	Mid to high single digit	8.7%	~
Operational EBITDA	Moderate increase	118 (+10%)	$\checkmark$	~ 145	148	✓	> 200	208	✓	> 280	283	✓	320-330	331	✓
Net Income Adj.	Moderate increase	<b>36</b> (+51%)	✓	> 50	56	✓	~ 100	107	<b>~</b>	> 150	154	~	> 175	184	✓
Free Cash Flow*	Moderate increase	39	✓	Slight increase	<b>80</b> (+103%)	✓	~ 100	116	<b>√</b>	~ 135	139	~	~ 145	146	✓
Return on Capital Employed (ROCE)	Moderate increase	10.3%	✓	> 10%	13.8%	~	Considerable increase	15.4% (+1.6% p.p.)	✓	stable	16.9%	~	stable	17.6%	✓

\*Free Cash Flow before M&A

## Ströer Group's Key Performance Indicators – Guidance 2018



#### **Adjusted Earnings per Share Development since 2013**



Note: Financials for 2013-2017 actuals, 2018 Guidance (before IFRS changes) \*After minorities

## **Strong Organic Revenue Growth Development since 2013**



Note: Change of organic growth calculation method in 2015, hereafter contribution of acquired companies will be split into organic and non-organic part from day one

## Finance





#### **Resource Allocation since 2013**



\*Dividend: incl. dividend for 2017 of approx. 70 m€, but cash-out in 2018; Capex: 2013-2017; M&A: 2013-2018 Q1 \*\*Calculation based on prior year-end share price



#### **Investments attract a high Return on Capital Employed**



Comment

- ROCE is a central KPI for the Management Board and stands at 17.6% end of 2017
- Investments lead to an additional Capital Employed of 580 m€ since 2013
- With additional adj. EBIT of 154 m€, ROCE could be increased by 7.3 ppts from 10.3% to 17.6% since 2013

\*as reported

#### **All M&A Activities follow three clear Principles**

- 1. Every target or new asset has a robust standalone case
- 2. Every acquired asset needs to perform better with Ströer than in a standalone case based on our group synergies
- 3. Every asset also delivers synergies or scale effects back to our group



#### Our Strategy is supported by successful M&A Activities

#### Total Acquisition Spend ~ 900 m€ since 2013



#### Comment

- M&A spend of approx. 900 m€, around 70% linked to our Top 4 M&A-Initiatives
- Acquisitions enable Ströer to offer integrated solutions along the entire marketing and sales value chain
- On average, 7 times EBITDA forms the basis for the Purchase Prices

#### Top 4 M&A-Initiatives:

- 1. T-Online (2015)
- 2. Direct Marketing (2017/2018)
- 3. Statista (2016)
- 4. Online Sales Houses (2013)

## Value Accretive Acquisitions since 2013



	Comment							
	<ul> <li>Based on 375 m€ Op. EBITDA 2018e Ströer's Enterprise Value stands at 3.7 bn€</li> </ul>							
value accretion sition spent 2013	<ul> <li>Op. EBITDA contribution of acquired businesses represents 42% (approx. 157 m€) of Group Op. EBITDA 2018e</li> </ul>							
	<ul> <li>M&amp;A-Investments into profitable (Op. EBITDA margin &gt;20% on average) and fast growing businesses (org. growth &gt;10% on average)</li> </ul>							
valuation	<ul> <li>The acquired businesses should at least attract a valuation EBITDA-multiple of the overall portfolio and contribute min. 1.5 bn€ to the Group EV</li> </ul>							
	<ul> <li>Not yet all synergies captured (esp. in Direct Media)</li> </ul>							
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#### **Our M&A Strategy Pays Off: Significant KPI Improvements**



Note: Figures for 2013-2017 actuals, 2018 Guidance (before IFRS changes)

## Finance





#### New Segment Structure as of 1<sup>st</sup> January 2018



#### Comment

- Existing segmentation does not sufficiently reflect management steering
- Segment OoH International will be merged into OoH Germany segment due to lack of relevance and size
- Digital segment demerges Direct Media and selected transactional businesses activities due to business heterogeneity and size

\*Demerged transactional business activities: Asam, Conexus, Foodist, Nachsendeauftrag and Ströer Products

## **Change in Segmentation – Merging OoH Business in one Segment**



## **Change in Segmentation – Splitting Digital Segment into two Parts**



## **Estimated Product Split in new Segment Structure for 2018**



- More detailed steering of our business activities via 9 instead of 7 product groups in future
- More transparency on our revenue streams
- Segmentation follows management approach

## Finance



## Ströer to apply IFRS 16 from 2018 onwards

#### **IFRS 16 framework**

- Replaces the previous standard IAS 17 Leases
- Can come effective earliest 1<sup>st</sup> January 2018

#### Application at Ströer

- Advertising contracts with private and public lessors need to be classified as "leases" in the future
- Capitalisation of the "right of use" by recognizing present value of the future lease payments as tangible or intangible assets\*
- Recognition of the obligation to make future lease payments as liabilities

#### Comment

- Ströer applying IFRS 16 as early adopter (standard practice for German Media)
- Effects higher than originally anticipated (since also public contracts are affected as well as new contracts)
- Ströer using IFRS 16 application to eliminate previous IFRS 11 adjustments as well

\*Classification based on how the underlying assets would be recognized if they were owned

## **IFRS 16: Expected Implications for Ströer Group**

#### **FY 2017 Expected Impact** m€ 1,345.1 No changes Revenues Increase by approx. +165 m€ 331.2 **Operational EBITDA** (elimination of operating lease expenses) Increase by approx. -150 to -155 m€ -103.0D&A (base) Increase by approx. +10 to +15 m€ EBIT (adjusted) 226.2 (as operating lease expenses are replaced by depreciation and interest) Financial result -9.0 Increase by approx. -25 to -30 m€ Decrease by approx. -15 m€ Net Income (adjusted) 183.6 (timing effect due to higher interest during first years, neutral over time) Increase by approx. +140 m€ (reclassification of lease liability Free Cash Flow (before M&A) 146.2 repayments in Financing Cash Flow) Increase by approx. +1.1 bn€ Liabilities 457.1 (capitalized future operating lease payments)

Expected major impacts on Ströer KPIs

#### Comment

- Scope at Ströer Group: >16,000 leasing contracts
- Main P&L effects: increase in EBITDA and EBIT, long-term neutral to Net Income
- Strongest effects in OoH segment
- Additional 1.1 bn€ liabilities have no impact on our leverage ratio definition of our lenders` banks

### **IFRS 16: Expected Implications for Ströer Group**



#### Aligned KPI: Leverage Ratio based on Banking Definition



\*Op. EBITDA 2017 restated (after application of IFRS 11 and IFRS 16) amounts to approx. 491 m€

#### Minor Variation between reported and Bank Leverage Ratio



Leverage Ratio – Bridge

#### Comment

- Bank leverage ratio slightly below reported leverage ratio (before IFRS changes) due to:
  - Net debt mainly reduced for earn out liabilities
  - Operational EBITDA of the last 12 month of acquired companies prior to acquisition considered
- Bank leverage ratio is not affected by IFRS reporting changes

FA = facility agreement

## Ströer to apply IFRS 11 from 2018 onwards

#### **IFRS 11 framework**

- Become effective as of 1<sup>st</sup> January 2014 in the EU
- Different accounting treatment for joint arrangements (joint operations vs. joint ventures)

#### **Application at Ströer**

- Ströer's internal reporting structure is based on the concept of proportionate consolidation of joint ventures
- For central management KPIs the implementation of IFRS 11 was suspended
- Ströer's consolidated financial statements have been prepared according to IFRS 11

#### Outlook 2018

- Ströer using IFRS 16 application to eliminate previous IFRS 11 adjustments as well
- Internal and external reporting structure aligned
- Only OoH Media is effected by elimination of IFRS 11-adjustment
- Minor FY impact on Revenues (approx. -14 m€) and Op. EBITDA (approx. -5 m€)

## Finance





## Ströer Group's Key Performance Indicators – Guidance 2018



## **Segment Expectation for 2018\***

Group Guidance	Reported Revenues Organic Growth Operational EBITDA	centage			
	Out-of-Home Media	Content Media	Direct Media		
Commont	Revenues ~ <b>700 to 750 m€</b>	Revenues ~ <b>500 to 550 m€</b>	Revenues ~ <b>350 to 400 m€</b>		
Segment Expectation	Op. EBITDA-Margin 24-27 percent	Op. EBITDA-Margin <b>31-34 percent</b>	Op. EBITDA-Margin <b>12-15 percent</b> (17 percent target state) Adj. EBIT-Margin 10-13 percent (15 percent target state)		





# Statista



#### **Key Facts about Statista**


# Statista's business funnel



#### 1 Drivers for traffic

# Statista among the top 10 most linked Websites in Germany

#### Germany, Websites with the most referencing IPs, February, 2018

Rank	Domain	Ref. IPs
1	t-online.de	217,803
2	google.de	200,608
3	amazon.de	124,360
4	blogspot.de	123,856
5	spiegel.de	101,860
6	welt.de	64,801
7	statista.com	59,944
8	FAZ.net	50,775
9	ccc.de	48,786
10	siemens.com	42,576

Google measures relevance of domains by number of links

= more traffic

#### 2 Traffic

# Statista has increased Traffic and distanced Competitors further

#### Global Statista webtraffic (m visits)\*



- International expansion driving traffic growth
- Statista with more traffic than nielsen.com, emarketer.com and euromonitor.com combined

# Traffic comes from Countries across the World – several Asian Countries among the top Traffic Drivers

Unique visitors by country of origin\*



- **1** US by far the largest source of traffic
- 2 Very international traffic composition
- **3** Top 2 countries only account for 50% of traffic -> diverse base

\*March 2018 unique users by country of origin; Google Analytics

# ... which leads to Sales from around the World

#### Top 25 countries, Account Sales March 2018

Rank	country	Sales
1	Germany	1,066,373€
2	United States	910,057€
3	United Kingdom	278,324€
4	France	90,237€
5	Canada	76,096€
6	China	52,616€
7	India	43,379€
8	Spain	33,319€
9	Italy	33,617€
10	Austria	27,563€
11	Japan	26,318€
12	Switzerland	25,293€
13	Finland	20,687€
14	Turkey	19,341€
15	Belgium	15,905€
16	Norway	15,585€
17	Brazil	14,103€
18	South Korea	13,574€
19	Sweden	11,876€
20	Denmark	11,737€
21	Singapore	10,991€
22	Australia	10,969€
23	Israel	10,605€
24	Argentina	9,923€
25	Chile	9,676€

**Revenue distribution** 

- 1/3 Germany
- 1/3 USA
- 1/3 Rest of the world

# **Registered Users have been growing with 50% CAGR**

3 Registered users

Number of registered users (in m)<sup>1</sup>



#### 4 Accounts

### Growing Number of paying Accounts combined with a Shift to more profitable Corporate and Enterprise Accounts



Share of bookings per account type\*

UNIQUE, PROPRIETARY CONTENT PREREQUISITE AND DRIVER FOR UPSELLING

\*Total bookings (i.e. invoiced accounts) for products mentioned; \*\*Absolute growth refers to the growth of the total € amount

# Statista from a one to a Multi-Product Company



5 Cross-Selling

# **E-commerce DB is a global Database for Online Stores**



- E-commerce is top key word for Statista
- No similar database exists worldwide
- Launch in 2017
- Subscription model

zalando.de		GENERAL INFORMATION	() REVENUE	TRAFFIC	PAYMENT		
Revenue analyt	ics						
zalando.de: eCommerce net sa	ales growth	0				🚦 Download Ex	cel Sheet
US\$1,241.2	m	1,011.0 1.157.0 1,145.0 1,24 2013 2014 2015 20		<b>,551.2</b> 2018	8	▲ 8.4%	
GLOBAL NET SALES IN 2016	#47 Rank	GLOBAL NET SALES GROWTH In million US\$			ROWTH 2016 / 2015 n percent		#3525 Rank

Source: 2013 – Annual report. Statista analysis. 2014 – Annual report. Statista analysis. 2015 – Annual report. Statista analysis. 2016 – Annual report. Statista analysis. 2017 – Forecast. 2018 – Forecast

zalando.de: eCommerce revenue split by category @

0%				$\odot$
ELECTRONICS & MEDIA \$ 0	95%	FOOD & PERSONAL CARE	FURNITURE & APPLIANCES	5%
Books, Mavles, Music US\$0m Consumer Electronics US\$0m	FASHION Apparel US\$583m Bags & Accessories US\$174m Footwear US\$422m	Pood & Boverages US\$0m Personal Care US\$0m	Furniture & Homeware US\$0m Household Appliances US\$0m	TOYS, HOBBY & DIY DIY, Garden & Pets USS Hobby & Stationery USS Sports & Outdoor USS Toys & Baby USS 6

5 Cross-Selling

# **Global Consumer Survey: A global Market Research Tool**

#### Covers offline and online sectors with a DIY tool



50+ TOPICS, 134,000+ CONSUMERS, 700+ BRANDS, 27 COUNTRIES

5 Cross-Selling

# The Tool's Country and Topic Coverage will be continually extended

#### **Global Consumer Survey: Coverage and Expansion**



- Great customer feedback for the new product
- More than 200 accounts testing the optional add-on to the account
- More than 100,000 € additional revenue generated after 1 month
- Focus countries will be expanded to increase depth of survey
- Additional topic areas toys & gaming and luxuries to be added

5 Cross-Selling

# Statista aims for 45 m€ in 2018 Bookings, staying on the 50% CAGR Trajectory since Acquisition in 2015

Non-GAAP bookings (m€)



\*Non-GAAP Bookings are the actual accounts invoiced. Due to the long contract duration, revenue is recognized over several months.



# Deep Dive Monetization National



# **Monetization National**



# Stable #3 in Media Sales House Ranking allows Ströer relevant Access to all Wallets





# Four Mega-Trends are challenging the Advertising Environment



# **Monetization National**



# **Strategy: One Sales House**



# **Monetization National**



### What does our Client truly want? Engaging with our Clients on C-Level

#### Whitepaper CMO



Blockchain: What will it hold for Marketers?

**Consumers:** How to predict the "unpredictable" consumer?

CMOs: To be or not to be (the 1/10 successful CMOs)

**Businesses need prepared CMOs** 

# STRÖER "LET'S FOCUS ALL OUR MARKETING ACTIVITIES ON

#### Whitepaper Customer Journey

CRM is not enough: The impact of individuality on marketing **Cluster Building:** 19 criteria of a customer's journey

**Touchpoints:** The need of interacting with a customer

Businesses need to interact with their customers on every channel

# **Becoming more solution-oriented**

#### CONSUMER

**EFFECT** 

Starting point: **CUSTOMER JOURNEY** – to the purchase with subsequent tracking of our touchpoints alongside the journey

We deliver **PROOF** of our solutions' positive impact on solving our client's problems MARKET CONSUMERS CHALLENGES CLIENT GOALS

# **Direct Client Sales**

Approximately 80% of our Clients can be targeted via Client Sales



# Client Sales is organized along distinct industrial Sectors

Respecting the Difference of Customer Journeys among these Industries

Cluster	Buying process		Business needs	
Contract	<ul> <li>Customer decides once and uses product several months/years</li> <li>High time investment for vendor comparison</li> </ul>	Telco Finance	Brand building	
High Frequency	<ul> <li>Customer buys product frequently or "seasonal" (e.g. every week)</li> <li>Low time investment while purchasing a product</li> </ul>	FMCG	Brand building (a general presence particularly required to stay relevant)	
Event	<ul> <li>Customer sporadically buys product (e.g. 1-5 times a year)</li> <li>Short buying process (1-2 weeks), but time investment in vendor comparison</li> </ul>	Tourism CE	Present relevant offer in decision-making process	
High Invest/Luxury	<ul> <li>Customer rarely buys product (&lt;1 per year)</li> <li>Long buying process, choice often highly influenced by brand</li> </ul>	Cars	Brand building (being the 1 <sup>st</sup> choice is necessary)	
Retail/Direct Response	<ul> <li>Costumer uses same platform or retail frequently</li> <li>Costumer buys several products</li> </ul>	E-commerce	Communication of offerings to create a response	

# **Monetization National**



### **Multi-channel Solutions**

#### PRODUCT MARKETING

Development of standardized, convergent, cross-media solutions that accompany the consumer across our media

#### MEDIA SOLUTIONS

Creation of individual concept solutions based on the customer journey across all Ströer touchpoints



# New convergent Products Lead to the Conjunction of In- and Outernet

#### **Mega Vertical Video**



**Convergence:** Identical vertical videos on mobile and Public Video

#### Pros:

- Quick extension of reach
- Mobile, young target group

#### Mega Poster Ad



**Convergence:** Identical advertisement on all screens: Mobile, desktop, Public Video

#### Pros:

- Quick extension of reach
- Perfect branding effect



#### **Convergence:**

Easy extension of movingimage campaigns in fitting surroundings

#### Pros:

- Quick extension of reach
- Strong content brands



#### Max-Screen Billboard & Skyscraper

#### **Convergence:**

Online classic billboard and skyscraper extension of Public Video screens

#### Pros:

Multiplier contacts

- Up to 47 mio. unique user
- Straightforward handling



# Success-Case: Hermes Easter Campaign

#### **GOALS & IDEAS**

- Expansion of Top-of-Mind-Awareness
- New brand-positioning: "If it matters to you, it matters to us" communicated in combination to Easter (sending a parcel to loved ones for Easter)
- Orchestration of Easter time as central occasion to mail gifts
- Address a broad target group

#### HOW

- Infoscreen: Waiting situation, occupation of highly frequented places at busy times
- Mega interstitial: Public Video & mobile convergence product
- Display mechanics: First advertising contact with large format awareness-ad and subsequent contacts (2-4) with medium rectangle to create a sensible balance between efficiency and effectiveness



# Integration of 3<sup>rd</sup> Party and owned Cross Media Tech-Stack

OWNED TECHNOLOGY	<ul> <li>Technology in marketing shortens value-added chain</li> <li>Intermediates without owned technology become replaceable</li> <li>User-based targeting proof of efficiency call for cross media solutions for online and OOH</li> </ul>	NTEGRATION Planning Delivery Optimization
3 <sup>rd</sup> PARTY TECHNOLOGY	<ul> <li>Usage of existing "best-in- class" 3<sup>rd</sup> party technology modules</li> <li>Optimized integration in our own system landscape (e.g. CRM-system, ERP- system, BI-tool)</li> </ul>	TECH-STACK

Reporting

# Leveraging own Tech-Stack helps to develop new Products and enables fast Growth

Successful integrations	
SEEDING alliance	
Successful takeover and integration of Seeding Alliance in March 2017	
Fully integrated in STRÖER SSP enables uplift up to 20% revenue	
yieldlove	
<b>yieldlove</b> Successful takeover and integration in our publisher offering	-
Successful takeover and integration	-

Yield revenue:	+25% YoY
DFP Switch:	+2.5 m€

**Yield maximization** 

#### Programmatic eCPM

	2016	2017	YoY
Desktop	0,99	1,32	33%
Mobile	0,68	0,8	18%



#### Successful products



# IO and programmatic Demand are treated equally, in Sales as well as in the technical Setup – The Objective is eCPM Maximization



### Ultimately, this Leads to a higher traceable Efficiency

**Ströer Setup Case OMS** 



- Sites with Ströer setup obtain a eCPM increase of +42%
- YOY performance comparison of OMS sites with and without Ströer setup (July)

#### Excurse Google\* Peer Group 2016



- +115% in eCPM of anonymous inventory
- +117% in eCPM of branded inventory
- Comparison Google ADX performance on the OMS inventory opposed to peer group news\*

#### Header Bidding Case T-Online



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Source: \*Google

### **Human Resources as Success-Driver**

#### **EXISTING STAFF**

Consistent and continuing **DEVELOPMENT** of our existing staff based on both performance and potential

#### **FUTURE STAFF**

Recruiting of suitable **TALENTS** in order to meet our growth targets and fill potential gaps



# Monetization Regional and Local

**ICKE** 

# **Monetization Regional and Local**



# German Business Landscape: SME Count for the Majority of Clients

#### **Facts and Figures**

- >95% of Companies in Germany are SME, with <5 k€ each in marketing expenses p.y.</p>
- Significant revenue potential



#### Market volume, net sales:

#### German businesses



Source: Statista, \*Nielsen Media, statistics, company details, own extrapolations

# **Sales Development and Customer Sales by Clusters**

Strategic Focus on E-Customer Segment

Customer Sales				
	Client cluster by sales volume, in €	<b>Distribution</b> sales 2017, share in %		
Α	+250k	22.7		
В	100-200k	15.9		
C1	50-100k	11.9		
C2	10-50k	24.1		
D	5-10k	9.2		
E	5k	16.2		


#### Ströer Strategy Leveraging the SME Market through a new Approach



#### Creating a new platform for solutions

- Marketplace instead of an own portfolio catalogue with a Do-it-for-you priority instead of self service Do-it-yourself
- Intelligent automation using bespoke AI capabilities to select optimum solution for each client within the whole portfolio
- Transition to flexible existing yield, optimization of processes



#### Consistent customer focus: Growth, Growth, Growth

- Growth as a necessary requirement for the success of a platform
- Growth only possible if clients are fully committed due to a full scope of solutions



#### **Clear USP and market entry barriers for competitors**

- Our USP is the core competence in the area of Proximity
- Hence Ströer owns the underlying infrastructure: Legal rights, regional sales force, locations, know-how, data

### The Target: Building a unique Positioning in German SME Category



**Customer perspective II** Self service for automated, regional comm. solutions broad  $\wedge$ **STRÖER** 2020 Media **STRÖER** supply 2017 C, Print narrow low high **Automation**  $\geq$ 

### **Our Backbone: Broad Coverage**

Local Market Know-How

**On-site presence** Local Do-it-for-you solutions



Local execution quality Local presence enables short routes to the customer



### **Monetization Regional and Local**



### Midterm Projections for local and regional Sales Headcounts

For 2018: Optimizing regional consultants & call center + strong growth of local & digital sales force

Sales team/FTEs	2016	2017	e2018	e2019	e2020
Regional consultants	89	118	110	120	130
Local sales	243	284	520	685	850
"Digital only" consultants	62	58	120	140	160
Ströer SME only call center agents	40	35	50	55	60
TOTAL	434	605	800	1,000	1,200

### **Monetization Regional and Local**



### **Customized Solutions for every Requirement**



### **Regional and local top Clients – Overall enhanced Opportunities**

	_	Out-of-Home Media			Online Media			
		Long-term	Digital	Campaigns	Brand	Performance		
	NetCologne							
clients	Schauinsland					$\bigcirc$		
A cli	Phantasialand							
	Möbel Höffner				$\bigcirc$	$\bigcirc$		
	Deiters					$\bigcirc$		
ents	ABDA		$\bigcirc$			$\bigcirc$		
B clients	Vattenfall		$\bigcirc$					
	Circus Krone				$\bigcirc$	$\bigcirc$		
(0)	Messe Berlin		$\bigcirc$					
ents	SSN	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$		
C+ clients	Easy Fitness	$\bigcirc$	$\bigcirc$			$\bigcirc$		
0	Möbel Biller		$\bigcirc$		$\bigcirc$	$\bigcirc$		

#### **Portfolio of UAM is the ideal Complement to our integrated Offers** With a strong Focus on Marketing to local and regional Customers



### **Adjusted Product Portfolio to our Strategy Customer Centricity**

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	KALENDE	RWOC	HE 2018	0								Diese Auswa	hl enthält Deka	denmedien
	19	20	21	22	23	24	25	26	27	28	29 🗸	30	31	
										KADE	19 20	~		
	32	33	34	35	36	37	38	39	40	41	42	43	44	
	NOVEMBR 45	46	47	48	49	50	51	52						
	*	40	47	40	42	~		32						

- Pre-defined city networks
- Smaller city networks of our premium portfolio allow access to regional customers
- More performance and flexibility on attractive terms
- Modification according to budget and campaign objective



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### Full Service 'Do-it-for-you' Platform



### **Ströer Media Creation**

Local Production and Marketing Services

## New founded in-house creative agency for local und regional customers.

Digital, analog and cross-media portfolio:

- Outdoor and online advertising
- Consulting, development, creation
- Design and communication solutions
- Broad service portfolio
- Extensive experience with media portfolio



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### **Monetization Regional and Local**



### Möbel Hardeck: Outperforming Competitors with Out-of-Home

Furniture Store reorganized its Marketing Strategy



OoH intensifies the campaigns reach and visibility. Via online, potential clients are addressed within their living rooms.

Sources: Nielsen Media Research, gross advertising, \*OoH: billboards incl. transport media

#### **Odlo Days: Integrated Campaign with OoH and Permodo**

#### Extensive campaign for PR event in Munich

The customer audience "outdoor athletes" was precisely determined by Permodo and got a gallery ad with calendar feature on their mobile device, including a coupon as well as an appointment for the next Odlo store.

The Odlo day at "Sporthaus Schuster" was also accompanied by a comprehensive Out-of-Home campaign on billboards, Mega-Light and Infoscreen. The accompanying PR event, which included a flash mob, ice cubes, a green graffiti campaign and light projections in the center of Munich was a great success.



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### **Continuous & on-going regional and local Sales Growth**

#### **ADAC** regional clubs



#### RegioHelden take over Google AdWords, display and SEO measures for ADAC

First ongoing RegioHelden campaign for ADAC Nordrhein started in February 2016. Moreover, RegioHelden supports currently 72 ADAC Regional Clubs locations. Additional revenue is generated through unique display measures and one-off campaigns.

#### Visit Berlin "Trip Trip Hurra"



#### Based on the slogan "Trip Trip Hurra" Visit Berlin dominated T-Online

Visit Berlin, Berlin's official marketing organization, draws the price of a luxury weekend for two in Berlin. Visit Berlin was represented on T-Online Home, the OMS and the Bauer Woman Rotation for 2 days to support the campaign. In addition, they ran a retargeting campaign with Twiago.

#### Nürnberger Insurance



#### Brand strengthening with personnel campaign

After the new brand identity, NÜRNBERGER insurance presents own employees in a national campaign. That is, because individual stories are best to comprehend, if made the most personal. Additionally they ran a parallel Online presence via various channels incl. targeting solutions.

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### **Summary Monetization Regional and Local**

-	

Sustainable support of client access on all levels with broad range of relevant products for individual requests



Investment in inimitable and largest media sales force in Germany connecting the whole range of our offers to more than 40,000 clients



"Do it for you" instead of "Do it yourself"



Significant synergies within the Ströer Group in all areas (tech, HRM, products, data, accesses, ideation etc.)



## **Outlook on current Innovation Initiatives**



#### Gartner Hype Cycle for emerging Technologies Top Trends



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Source: Gartner

### Blockchain

#### • Why

Ströer believes that the blockchain offers different game-changing benefits for different areas of our business model. Especially in case of building up transparency and trust, as well as reducing complexity in existing business processes.

#### What

Big potential has been identified in the field of private blockchain. Especially when it comes to the work with other marketers or agencies, it is a great opportunity to have a mutual interest that is transparent and forgeryproof.

#### How

Starting cooperation.



### **Blockchain Initiatives**

Together with **T-Systems**, Ströer is currently figuring out which benefits a private blockchain can offer.

- A promising opportunity can be found in the field of the door-to-door business (build up transparency in relation to provision-fees between clients and sales representatives).
- Another possibility has been identified in a private blockchain for several marketers. This should raise the efficiency and transparency of the whole system.

In June a hackathon in cooperation with Ströer and **Deon Digital** takes place.

- The idea is to generate short-term benefits by implementing smart contract solutions in existing fields of the Ströer universe.
- By end of the hackathon several use cases should be ready to start at an MVP basis.



### **Augmented and Virtual Reality**

#### Why

AR/VR improves customer's engagement. Content and Touchpoints are needed as a basis – both is given in the Ströer Portfolio.

#### What

Transform existing Content into AR-ability, hardware agnostic.

#### How

Partnering with big and smaller partners to create enterprise ready solutions.



### **Augmented and Virtual Reality Initiatives**

#### AR customized campaigns

Interactive AR filter realization on Public Video screens at highly frequented station locations during big public events like the soccer world championship



#### VR Direct Sales Kit

A ready to use VR sales kit for Ströer direct sales to demonstrate products that are in need of explanation like smart home applications



#### AR Cooperation

To have a strong partner with AR knowledge and technology Ströer is screening the market



#### Ströer Innolab

VR glasses as a part of Ströer Innolab for example can be used to let the customer virtually experience the dimensions of e.g. big station campaigns by number of links



### **Artificial Intelligence**

#### Why

It is obvious that a future built on artificial intelligence (AI) is rapidly approaching and that AI will have a huge impact on any business. For Ströer it is important to monitor this development and to identify those parts which are ready to use.

#### What

Inside the AI range, we have identified the following fields of application as relevant:

- AI based conversations
- Al based analytics
- Al powered content

#### How

Following a design thinking approach, we identified use cases for each field. In cooperation with technological partners from our established network, we aim to build MVPs in 2018.



### **Artificial Intelligence Initiatives**

Field of application	AI based analytics	AI powered content	AI based conversations
	Advertising supported services for cities and municipalities	Maximizing the impact of advertising by showing the most relevant content	Leverage efficiency potentials by using chatbots and digital assistants
Logic	<ul> <li>Services for municipalities based on Ströer infrastructure (sensors &amp; data)</li> <li>Big data produced by sensors made accessible to municipalities through AI technology</li> <li>Monetization through additional billboard placement privilege</li> </ul>	<ul> <li>Using different available resources representing user engagement (e.g. optical sensors, social media) as data input for machine learning</li> <li>Using machine learning for optimizing content playout in order to maximize user engagement</li> <li>Monetization through higher advertising revenues</li> </ul>	<ul> <li>Test speech- and text based chat bots for client dialog</li> <li>Use AI based information assistants for call center agents in order to maximize efficiency</li> <li>Understanding current psycho- physiological states based on bio feedback and creating a new human-centered work environment</li> </ul>
Initiatives	NOx Hotspot Model	BM Watson Content	bot TAWNY

### **Artificial Intelligence for Business**



# Combining all accessible Customer Data with Al to generate Quality Leads for regional Sales Teams



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### Ad Server based real time Playout for D-OoH requires real time Check of Video Content



### **Responsive Places**

#### • Why?

Ströer wants to strengthen its position as innovative city partner and believes that its urban knowledge and inventory can play a key role in the context of smart city transformations.

#### What?

Ströer has developed a dynamic dashboard that reflects the mood and trending topics in German cities.

#### How?

A real-time happiness layer and social monitoring provide the necessary insights and ensure the analysis of effects resulting from urban interventions.



### **Responsive Places Initiatives I**

#### Happiness Index

The dynamic Happiness Index developed by Ströer reflects the happiness in German cities. Shared tweets of the citizens and those regarding the city are analyzed in real-time to built a sentiment score which serves as the variable for happiness.



#### Social Monitor

Ströer collaborates with Brandwatch to identify the most discussed topics in German cities. The analysis is based on city mentions in the social web and can be divided into arbitrary clusters. The clusters Ströer has built for current analysis are 'digitization', 'free time/culture/lifestyle', 'infrastructure & mobility', 'security', 'cityscape' and 'administration'.



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### **Responsive Places Initiatives II** Morgenstadt – Strategic Cooperation with renowned Fraunhofer Institute

In the Morgenstadt initiative, the Fraunhofer Society is developing solutions for the city of the future together with Ströer and other partners from the industry and municipalities:

- Identify and form new markets and development potential within urban systems
- Identify impending technological development and potential disruptive transformations for tomorrows cities, while designing new product systems and their corresponding business models
- Carry out pilot projects for the demonstration of new ideas
- Discover solutions for urban challenges on the way to a sustainable city





### **Financial Calendar 2018**





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