BACK TO THE FUTURE

THE STORY OF DECT

SEPTEMBER 29, 2022
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INTRODUCTION

- Adrie van Meijeren
- Marketing Director Audio & Voice
- Located in Den Bosch, the Netherlands

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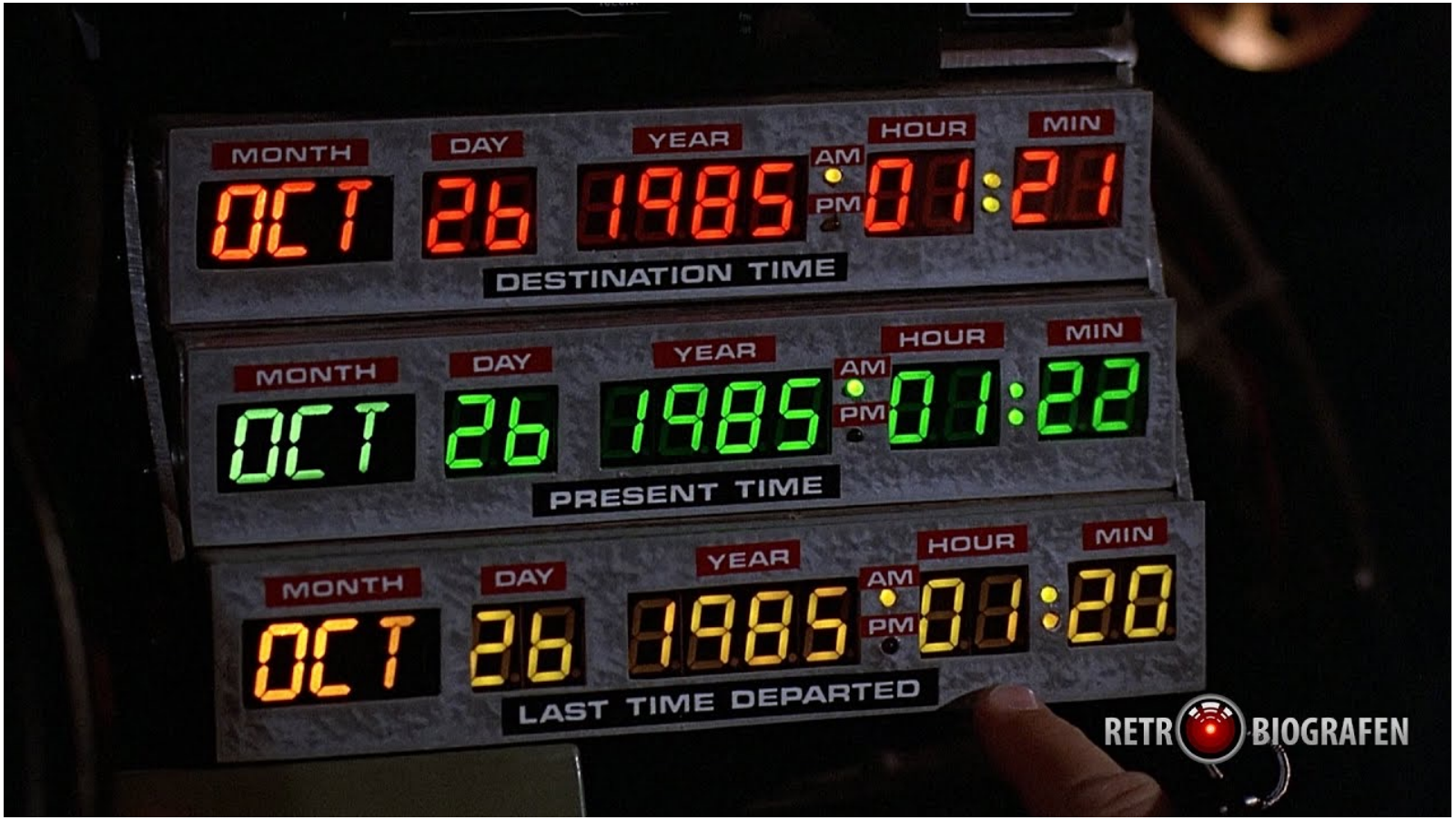
BIG IDEAS FOR EVERY SPACE RENESAS

2022: TURNING BACK THE CLOCK



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1992: WHAT WILL DRIVE THE SUCCESS OF DECT?

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BACK TO THE FUTURE, WHAT IF ?

If DECT wasn’t developed as a standard in the 80’s and launched as a standard

If DECT wouldn’t have found it’s big commercial success in home telephony

If DECT wasn’t recognized in as the perfect technology professional audio

If all technology partners, chipset vendors and equipment makers would not have invested in DECT making optimized products in terms of features, power, size and cost

If people would not have believed in the superior values of the technology

There would be no DECT evolution or a future for NR+ shaping the future of DECT

What can we learn from the past ?

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BACK TO THE FUTURE: NEW APPLICATIONS AND MARKETS

1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024

CAT-iq

ULE ALLIANCE

DECT Evolution

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BACK TO THE FUTURE: TECHNOLOGY DEVELOPMENT

1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024

SC14401, the 1st DECT BB

10 generations to single chip
10x BOM reduction

Integration

SC14481 first
single chip DECT

DECT Evolution to
professional audio

Performance

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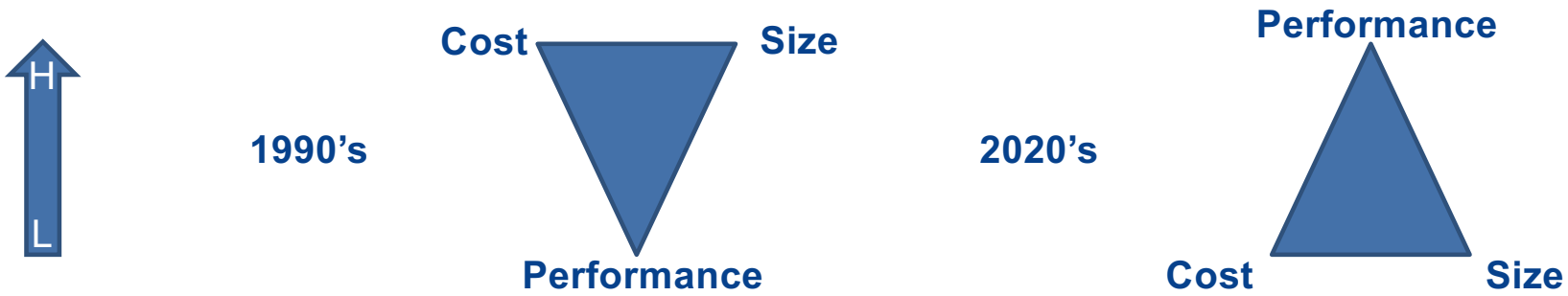
BACK TO THE FUTURE: WHAT HAVE WE LEARNED ?

What have we learned making DECT successful as a standard?

- The licensed, interference free 1.9GHz band is a treasure
- Use of DECT at emergency services is an ultimate proof point of an reliable communication standard
- Use of DECT in PMSE proofs audio without clicks offers low latency, critical for live performance
- Adoption of the standard into other geographical regions helped to grow the market
- Innovation as key driver to achieve the huge installed DECT base of over 1B devices
- Technology innovation in DECT evolution helped to increase performance, talk time and reduced size and weight



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BACK TO THE FUTURE: WHAT WILL MAKE IT A FUTURE SUCCESS ?

- Protect the 1.9GHz band to keep the unique proposition for mission critical applications
- Continue to work on global adoption of the standard
- Find new high volume applications to drive innovation
- Focus on the right markets and correct timing of new technology

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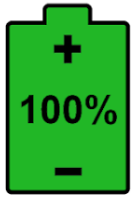
BACK TO THE FUTURE: WHAT WILL MAKE IT A FUTURE SUCCESS ?

- Ensure that solutions offers the correct performance meeting requirements of targeted end products
  - Address density handling and ensure lowest possible latency for audio
  - Deliver the processing power needed
  - Low power consumption is key to battery size and battery life
  - Provide solutions at the right cost points in order to grow the market



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BACK TO THE FUTURE: IT'S ON IT'S WAY

Building the future on a strong foundation

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BACK TO THE FUTURE

How does Renesas drive the future?

- Evolutionary steps in design
- Broad portfolio, system level solutions
- Ease of use solutions
- Focus on the right markets

Next Generation

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THE END

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