# Chances and obstacles **Dynamic SoundField in Regular Schools**





# **Dynamic SoundField in Regular Schools**

Attempts to implement wireless speech-transmission in regular schools may end in both ways.



My thesis:

"Dynamic SoundField" is a key instrument to end more frequently successful.



# **Dynamic SoundField in Regular Schools**



Please be indulgent to the old man...



# **Dynamic SoundField in Regular Schools**



early 2018, after 3 years of trying to implement "Dynamic SoundFiled in regular schools…



# **Dynamic SoundField in Regular Schools**

# Options of Hearing Technologies are fascinating





# **Dynamic SoundField in Regular Schools**

Options of Hearing Technologies are fascinating



# So why using FM-Systems and Dynamic SoundField?





# **Dynamic SoundField in Regular Schools**

FM-Equipiment is well known in pedaudiology ...





... and used since decades



# **Dynamic SoundField in Regular Schools**

And fortunately it is changing



... to much more options







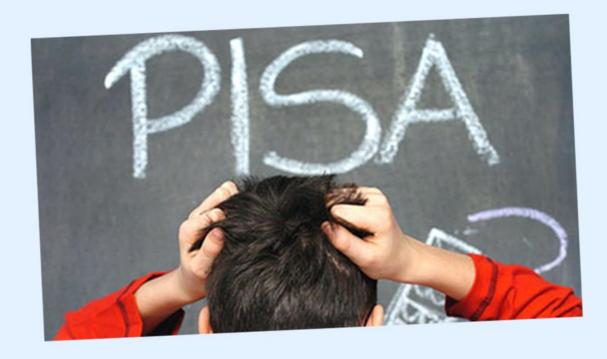








# **Dynamic SoundField in Regular Schools**

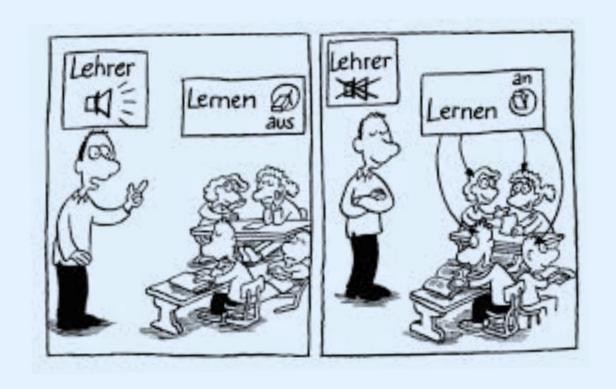


After the "PISA-shock" of 2000 educational concepts in Germany changed...



# **Dynamic SoundField in Regular Schools**

... from "teacher-centered" education to "dialogic learning-centered" education.



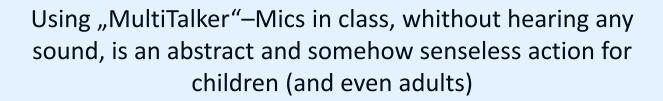








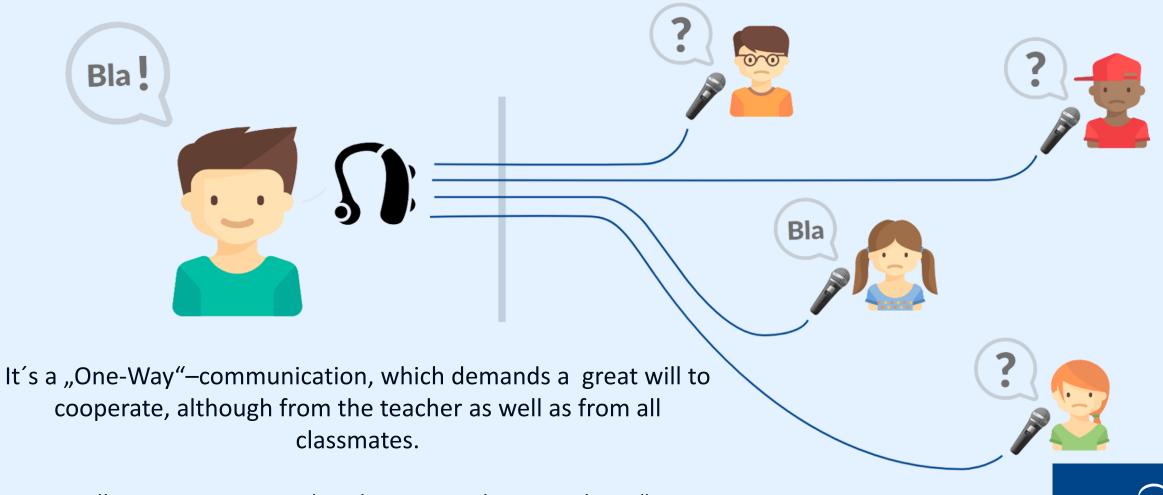






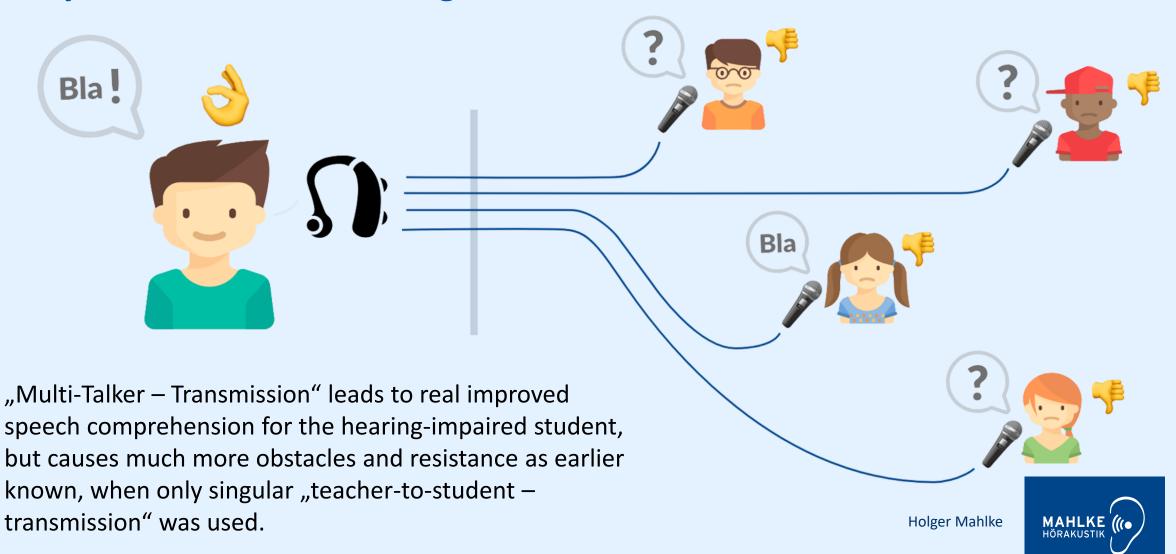


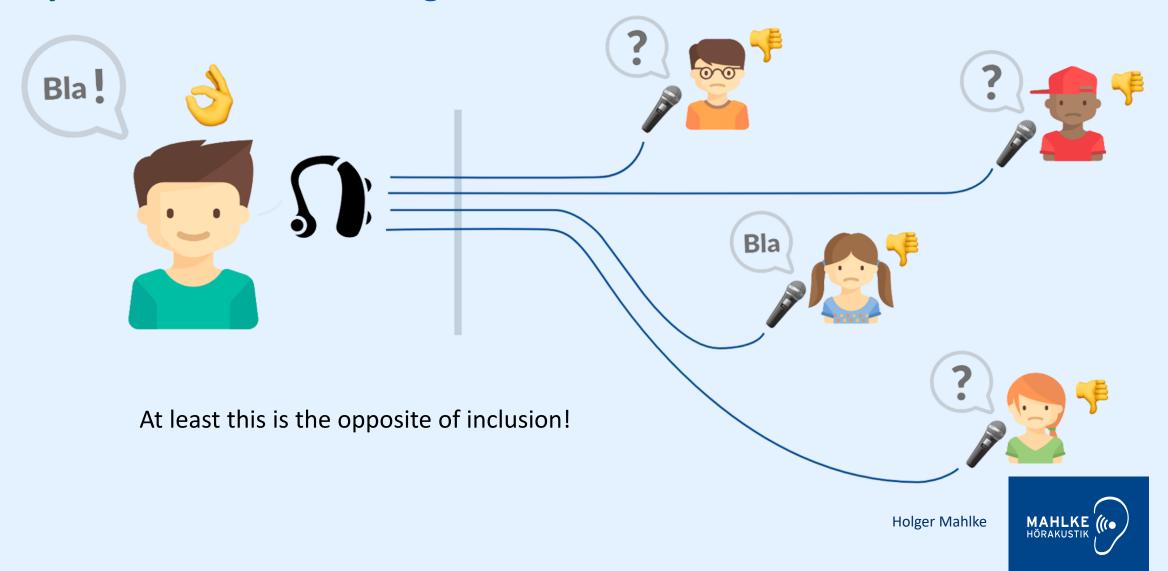
# **Dynamic SoundField in Regular Schools**



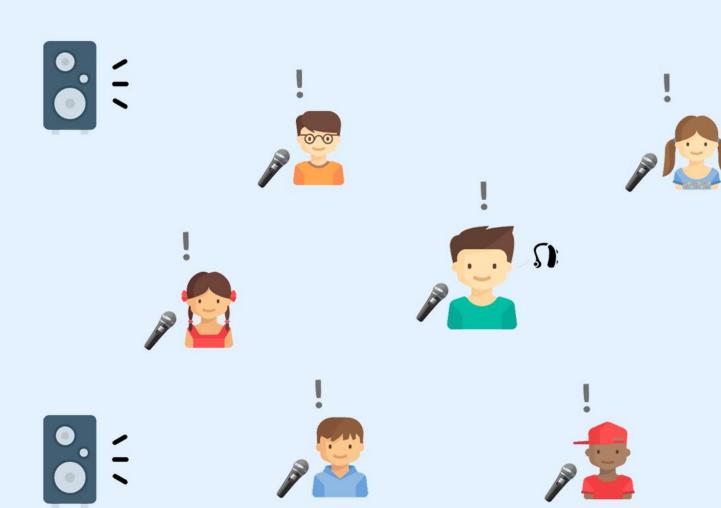
Willing or not, our student becomes "the special one"







# **Dynamic SoundField in Regular Schools**





"Multi-Talker – SoundField could be a solution, because everyone in class is able to experience the advantage of microphone usage...





# **Dynamic SoundField in Regular Schools**





... and from my point of view it might be one of the key issues, regarding to successful inclusion of hearing-impaired students.











# **Dynamic SoundField in Regular Schools**



# **Case Examples**







# **Dynamic SoundField in Regular Schools**



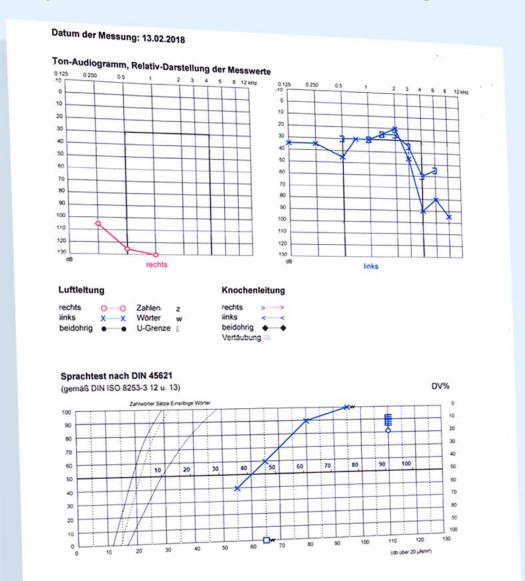
### Juna

born 2009

Here in 2012 at the age of 2

- Relapsing polychondritis, diagnosed at 6th month
- Deafness on the right ear
- Progredient HF-hearing-loss on the left ear





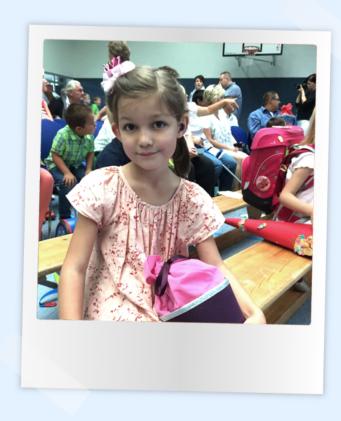
- Her audiogram, meanwhile stable since 2013
- First usage of Roger -transmission at the age of 4
- Equipment has been intensively used in speech therapy and Kindergarden
- Had good impact on Juna's speech development.



- Additional MT-Mic at 5 (last year at Kindergarden)
- to improve her understanding in chair circle
- to condition her in group usage
- complained early about "noise and nonsense that other kids do with the mic"







- Early in first year at primary school Juna refused Roger equipment
- same reasons as already mentioned in Kindergarden.
- "Forgot" to carry Roger to school
- Had a variety of strategies to avoid using Roger



- Juna became more and more isolated in class
- had significant problems to follow the lessons
- "special school" option has been dicussed, but strongly refused by parents

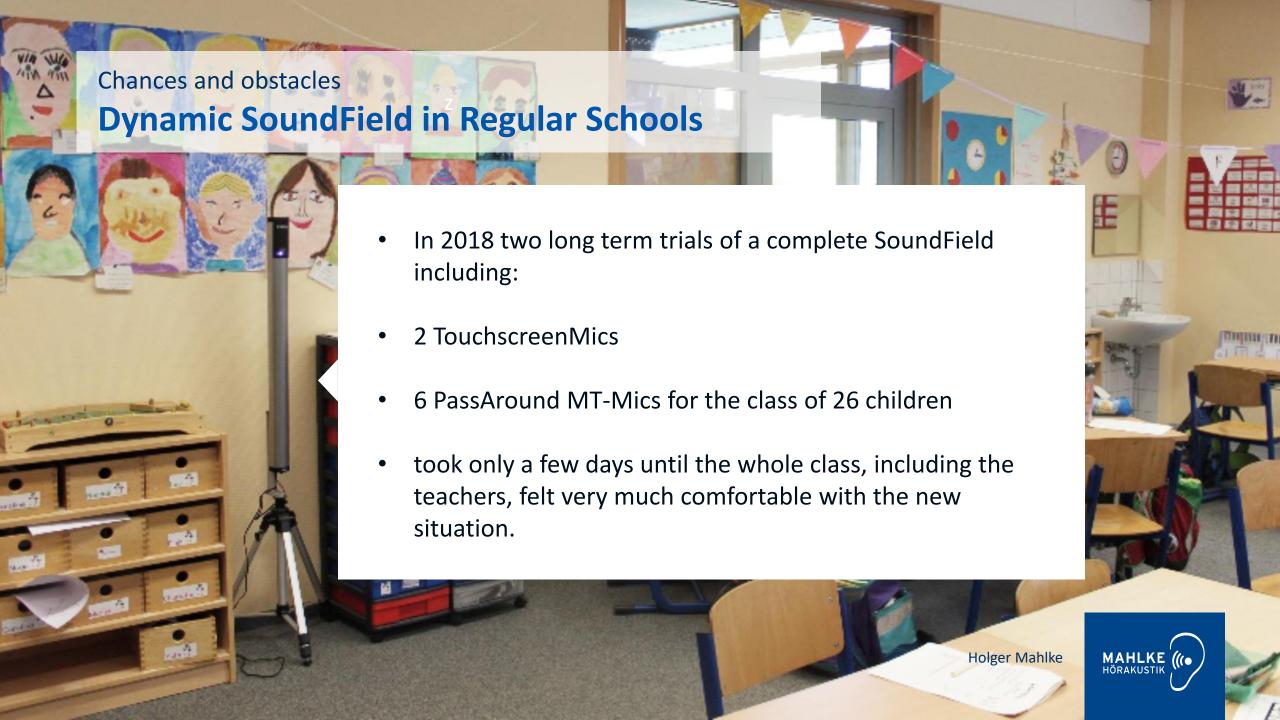






- In 2. year of primary school intensive intervention of "special pedagogues service"
- Using <u>only one</u> MT-mic deferred the flow of every lesson.
- Classmates were very cooperative to Juna, but situation became ennoying for the whole class.





# **Dynamic SoundField in Regular Schools**

Class uses SoundField since December 2018; statements of class in April 2019:

- Speaking into a Mic is (now) normal
- We hear each other better
- Every table group has Mic-service
- "I like that we do not talk across each other any more"
- "Before "Alexa"\* came I did not now how loud to speak into the Mic to let Juna understand; now I know."



<sup>\*</sup> the class gave the name "Alexa" to SF – Speaker

# **Dynamic SoundField in Regular Schools**

Statements of teacher (fem) in April 2019:

- To be honest, I realized the whole dimension of Juna's problems only in the last few months, as her participation in class changed completely
- In a "reading-night" with two devided groups, I used the SF only in the "Juna-group" and realized the different impact for all kids and for myself
- The shy and silent ones in class have great benefit from SF



# **Dynamic SoundField in Regular Schools**



### Harun

born 2008

Here in 2019 at the age of 10; 3rd year at primary school

- Binaural deafness diagnosed at 13 months
- CI surgery right at 22 months
- CI surgery left at 26 months
- Bilingual education German / Kurdish



- "Lost" his Roger Receivers several times
- Was a quiet and shy boy in class
- Did his "still work" fine
- Did not paticipate in communicative education





# **Dynamic SoundField in Regular Schools**

# Let us visit Harun's class, to see how SoundField can work











# Thank you for your attention

