

Purpose What is the intent of this project? Why are we doing this project?	We want to generate speech for low-resource languages from speech and machine translated transcripts to allow training of Corti's machine learning model for emergency call assistance.		Scope What does this project contain? What does this project not contain?	We want to focus on generating speech using WaveNet-like models. Machine-translation and ASR models is out of scope.		Success Criteria What do we need to achieve in order for the project to be successful? How can the Success Criteria be measured? Gain performance requested by Corti (word error rate of 15% on librispeech light model)
Milestones When will we start the project and when is the final deadline? What are the key milestones and when will they occur? How can the milestones be measured?	Overview of literature and project plan	Implement WaveNet (vanilla) without text conditioning	Implement WaveNet with text conditioning	Statistically evaluate conditioned WaveNet using ASR on emergency calls	Write report	A working WaveNet model for generating speech in low-ressource languages and a report that documents model performance Outcome What is the end result? - A book - A website - An event
Activities Which activities need to be executed in order to reach a certain milestone?	Project Canvas Gannt diagram Collaboration contract Research litterature Describe desired learning outcome	Data augmentation and processing Implementation of architechtue Training and evaluation	Transcript embeddings Incorporate transcript embeddings into WaveNet model	Setup ASR model (from external source) Evaluate WaveNet model using multiple statistical methods Visualization of results	Document and discuss results in report (IMRAD format) Project presentation	
Team Who are the team members? What are their roles in the project?	4 students 1 DTU counselor (Morten Mørup) 1 Corti counselor (Lars Maaløe)		Stakeholders Who has an interest in the success of the project? In what way are they involved in the project? Corti (counselor and recipient) Morten Mørup (counselor)	Users Who will benefit from the outcome of the project? <ul style="list-style-type: none">Beneficiaries: Patients of emergency dispatch centers (in multiple countries with a low-ressource languages).Recipient: Corti		
Resources What resources do we need in the project? Physical (office, building, server) Financial (money) Human (time, knowledge)	<ul style="list-style-type: none">Corti: Emergency calls and ASR modelDTU Compute: HPCResearch and counsellingPublic TTS dataset		Constraints What are the known limitations of the project? - Physical (office, building, server) - Financial (money) - Human (time, knowledge, politics) <ul style="list-style-type: none">The distribution of time is skewed regarding the possible time we can use before and in the exam period.No physical meetings.	Risks Which risks may occur during the project? How do we treat these risks? <ul style="list-style-type: none">Corona (lower efficiency and plausible death)		

Iteration 1
(10/02/2021)