



















	Univer	rsity of Stuttgart v	Institute of Engineering Geodesy		
	🦉 4. Ap	plication			
	 Simulation studies (in planning phase) for parameters standard deviation and tolerance correctness 				
-	Process	Input / output variables	Input parameter values		
5	Build and Stationing	Input: 3 x control points 9 observations (hz-, v-angle, distance)	σ_{xyz} =0.005 m $\sigma_{hz,v}$ =0.0003 gon σ_{d} =0.001 m		
$\langle \rangle$	<u>Measuring</u> Formwork	Output: 1 x station coordinates Input: station coordinates observations (hz-, v-angle, distance) Output: 2 x stake out points 1 x tolerance	$\sigma_{hz,v}$ =0.0003 gon σ_d =0.001 m		
₹	Parameter	Output parameter values			
6	stdv	A: $\sigma_x = 3.2 \text{ mm } \sigma_y = 3.2 \text{ mm } \sigma_z = 3.1 \text{ mm}$ B: $\sigma_z = 3.1 \text{ mm} \sigma_z = 3.2 \text{ mm}$	and the second second		
30	tc	tc=14.5mm (T _M =6.6mm)			
	→ Adaptic	on of the process model			
	FIG Working Week	2012, May 6-10, 2012, Rome, Italy	11		

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2	5. Summary and outlook	
8	research activities related to quality assurance in building construction	
5	collaborative work between civil- and geodetic engineers, which places special emphasis on the interface between construction and geodetic processes	
2	process model and quality assurance concept for building the inner core of a high rise building	
2	In real time and in the planning phase	
-	→ Extended process modell (e.g. alternative paths) to react on listurbances	
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