

31 March 2004, China Press, Central PgC14, SMART (by Tan Yoke Ming)

SMART tunnel for flood prevention

- Work for the SMART project is underway 24 hours round the clock so it is expected to complete by end of next year. At that time, residents in Klang Valley will bid farewell to the nightmares of flood and traffic jam.
- This RM2 billion project is undertaken by the Drainage Dept as well as the Highway Authority. It is in total 11.5km long with 9.7km of underground tunnel.
- Project's starting point is located at the intersection of Klang River and Ampang River, it aims to discharge water at the downstream of Klang River and divert it to water channels so to avoid huge water volume flowing into the junction of Klang River and Gombak River.
- 3km of the project is for the dual direction tunnel. There are 3 levels, the upper two levels are for motor vehicles and the lowest one is for water to be discharged.
- The contractor for the project brought in German tunnel boring machines in order not to damage the ground structure to make way for a 9.7km tunnel. This technology can prevent ground water from flowing into the tunnel, which will damage the structure of ground soil and also prevent the ground to sink and instability in the ground structure.



工作順利

↑精明隧道防洪計劃工程如火如荼進行，目前已可見其雛型，在嚴密監督下，工程進度順利。



導致塞車

防洪計劃進行期間，導致隆英大道近舊飛機橋路一帶嚴重塞車，但只要忍過這段日子，為了日後的方便，相信百姓會諒解和配合放慢速度行駛。



日夜趕工

↑為了讓工程能如期完工，員工們也顧不得烈日暴曬或在晝夜採輪班制開工，精神可嘉。

精明隧道防洪計劃 (SMART) 日以繼夜進行工程，進展神速，預料可提早於明年杪建設和通車，屆時，巴生谷一帶市民可與困擾已久的水患和塞車夢魘告別了。

這項採用先進科技工藝的計劃耗資廿億零吉，由水利灌溉局與大道局共同負責，全長十一點五公里，其中九點七公里為地下隧道，此計劃可讓吉隆坡安然度過百年，不再每逢連綿大雨數小時就閃電水災，令市民怨聲載道，蒙受經濟損失。

整個工程由巴生河與安邦河交匯處開始興建，旨在把大量往巴生河下游排去的河水攔截，繞道流入計劃中的排水道內，再流至巴生河下游，避免河水大量流入巴生河及雞籠河交匯處，造成占美回教堂一帶氾濫成災。

其中三公里的工程為雙向地下隧道，共分為三層，上兩層用作通車，下層則作為排水用途，自新街場的車輛，可使用該地下道通往市

中心，或直達甘榜班登。

精明防洪隧道計劃承包商引進德國挖掘機械，以不傷害地基的方式，挖掘長九點七公里的地道，這種技術能防止地下水流入地道，破壞地底石泥結構，也能防止地陷和土地結構不穩等問題。

■報導：陳玉明 攝影：練國偉

精明隧道防洪



挖掘深溝

↑工作人員在陳秀連路一帶挖掘深溝，準備從此處開始，使用德國挖掘機械，來挖掘地下隧道。



分為三層

帶掘開深溝，準備從此處開始，使用德國掘地機械，來挖掘地下隧道。

分為三層

全長三公里的雙向地下隧道，共分為三層，上兩層為通車道，下層則為排水用途，可由新街場直達甘榜班登，完全不受外在因素和狀況影響。

承辦商引進德國掘地機械，以不傷害地基的方式挖掘地下道，以防止地下水流入，破壞地底石泥結構，防止地陷和土地結構不穩等問題出現。

先進機械

耗資廿億

臨閃電水災問題困擾，此計劃可讓吉隆坡安然度過百年，不再面臨七公里為地下隧道，此計劃可讓吉隆坡安然度過百年，不再面臨耗資廿億零吉的精明防洪隧道，全長十一點五公里，其中九

The image is a composite of several elements related to the Smart Tunnel project in Kuala Lumpur. At the top left is a map showing the tunnel route through the city, with labels for various roads and landmarks like the National Stadium and the National Museum. A legend indicates 'In progress' (dotted line), 'Partially completed' (solid line), and 'Smart Tunnel' (thick red line). To the right of the map is a diagram of a three-level tunnel structure, showing two levels for traffic and one level for drainage. Below this is a photograph of a large circular cutterhead from a tunnel boring machine (TBM). To the right of the TBM photo is a photograph of a large-scale construction site for the tunnel, showing the massive scale of the project. At the bottom left is a photograph of a deep construction trench with workers and equipment. Text boxes provide details about the project's cost (2 billion ringgit), its purpose (to prevent flooding), and the use of advanced German machinery.