

SIGNALS INTELLIGENCE
BLETCHLEY PARK
&
COLOSSUS

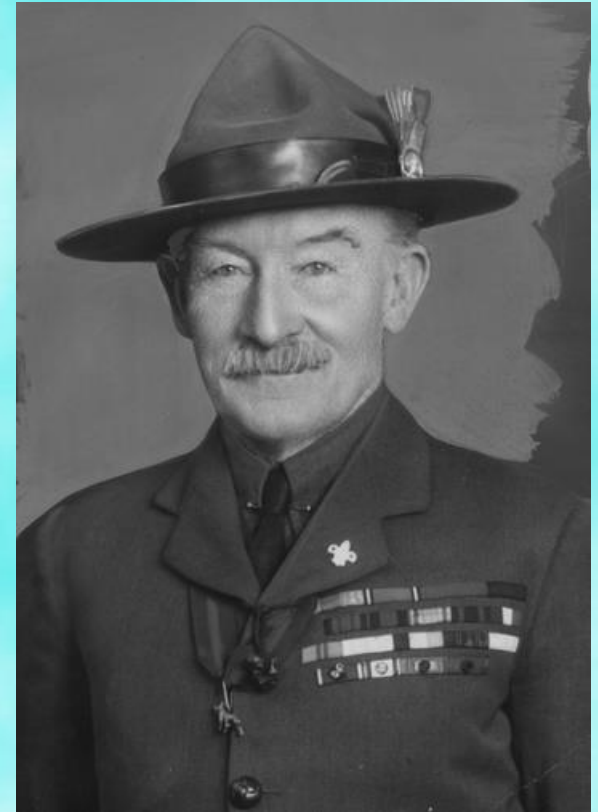
Good communications are a vital element to a Country both at war and in peace.

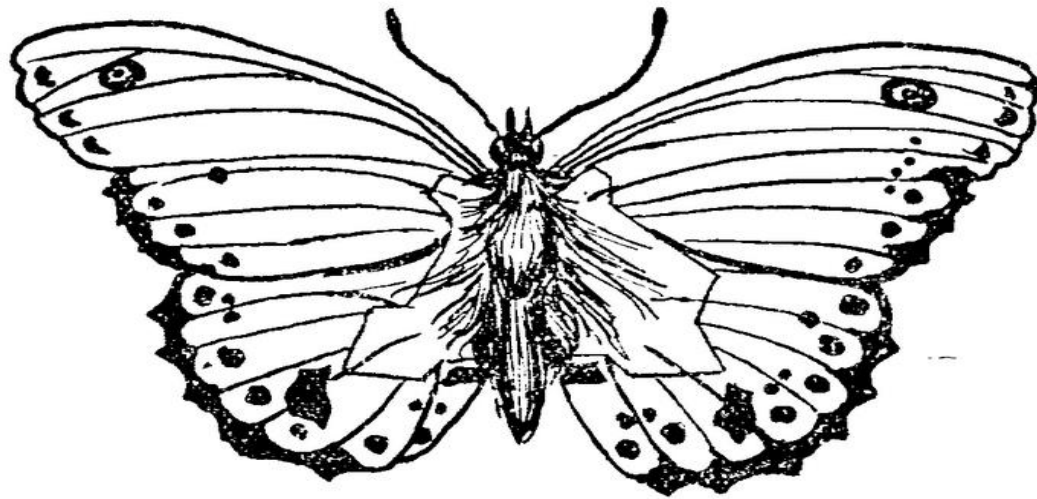


Gathering Intelligence and intercepting enemy communications, would enable you to know their plans in advance, and give you an strategic advantage.

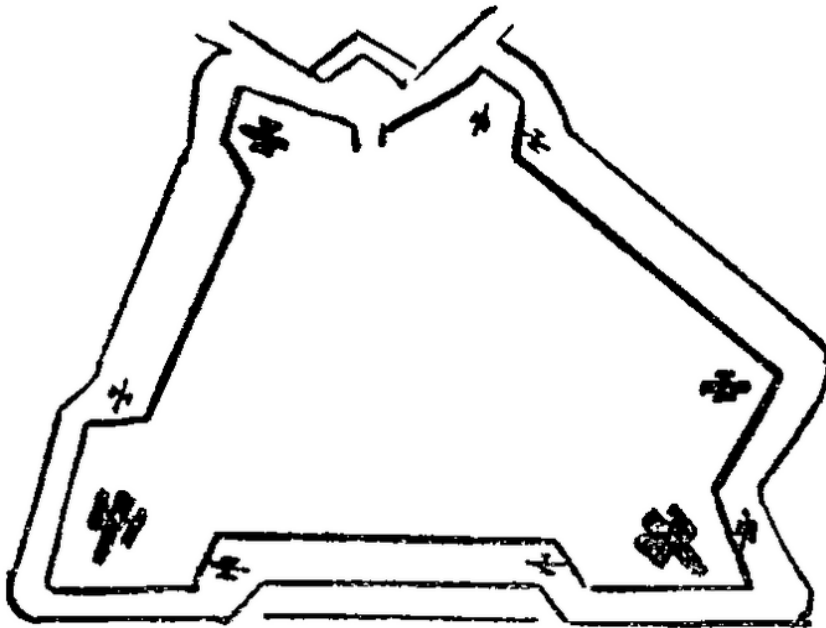
Both sides know this, so important information and messages are sent in a format that hopefully can only be understood by your own side.

16–18 Queen Anne's Gate, London





Sketch of a
butterfly by Lord
Baden-Powell

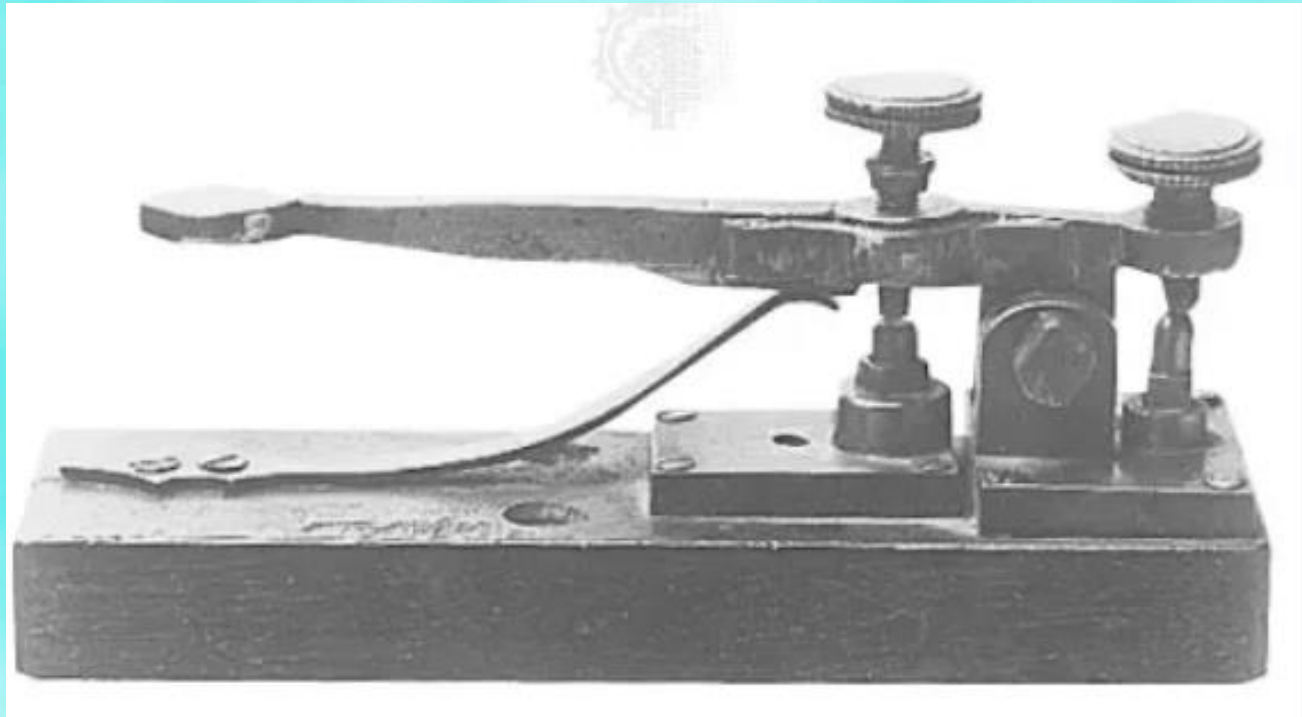


But most communications are sent as text which required some form of encryption by a cypher

[illegible]

Encrypted letter written by Mary Queen of Scots.

A leap forward in communications came with the invention of telegraph and Morse code in the 1840's.



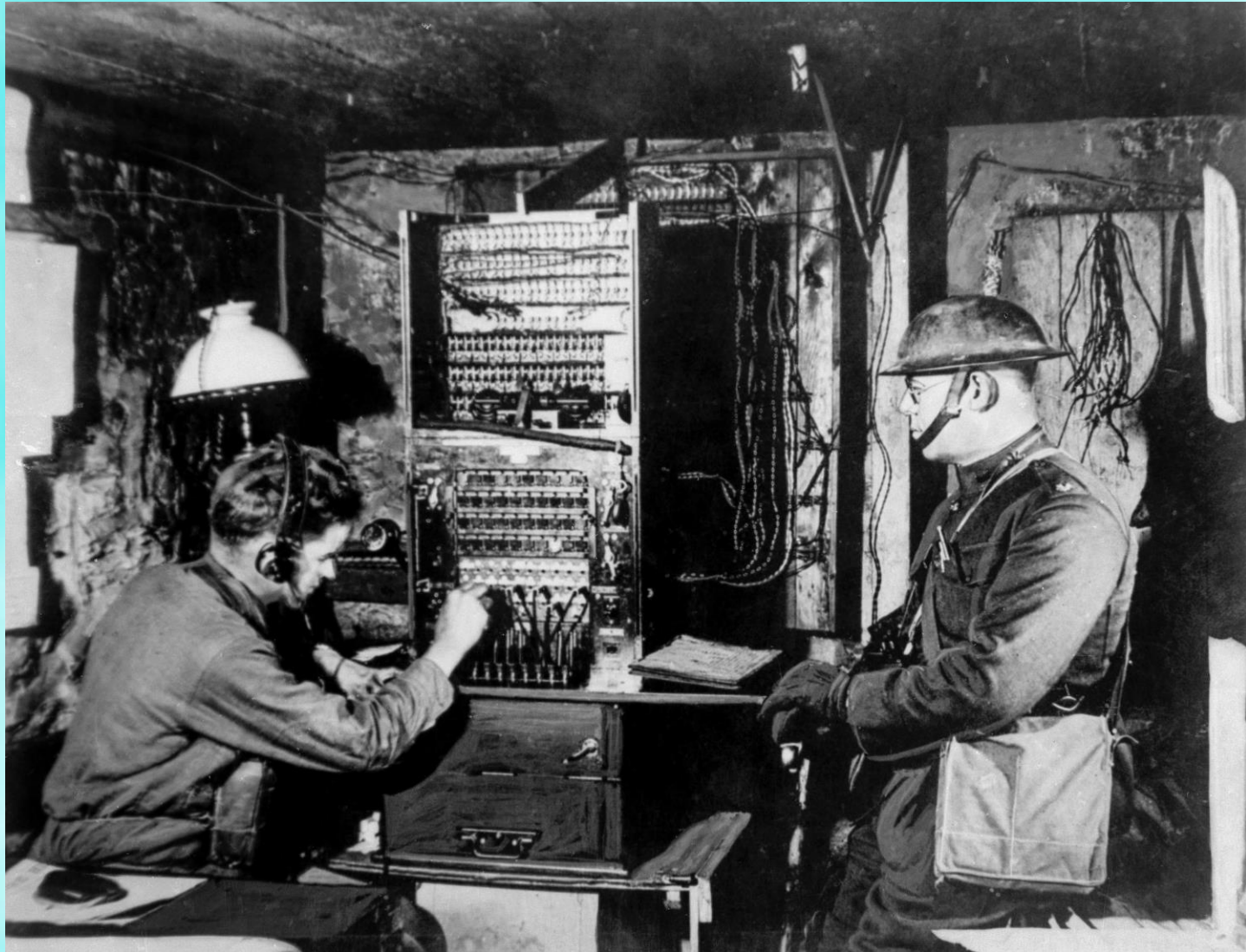
But this was not much use to mobile Military forces or ships at sea.

Everything changed with the invention of wireless communications, in 1895, by Marconi.

Still using Morse Code, the Royal Navy started installing wireless sets on their ships before 1900.



THE GREAT WAR (1914 – 1918)



Zimmermann Telegram.

CLASS OF SERVICE DESIRED	
Full Day Message	☒
Day Letter	☐
Night Message	☐
Night Letter	☐

Patrons should note, as it may vary the class of service desired. OTHERWISE THE TELEGRAM WILL BE TRANSMITTED AS A FULL DAY MESSAGE.

WESTERN UNION

TELEGRAM

NEWCOMB CARLTON, Proprietor

M-C

THE FIVE

5580

Send the following telegram, subject to the terms on back hereof, which are hereby agreed to

GERMAN LEGATION
MEXICO CITY

via Galveston

JAN 19 1917

130	13042	13401	8501	115	3528	416	17214	8491	11310
18147	18222	21560	10247	11518	23677	13805	3494	14936	
98092	5905	11311	10392	10371	0302	21290	5161	59695	
23571	17504	11269	18276	18101	0317	0228	17694	4473	
23284	22200	19452	21589	87893	5569	13918	8958	12137	
1333	4725	4458	5905	17188	13851	4458	17149	14471	6708
13850	12224	0929	14991	7382	15857	67893	14218	36477	
5000	18557	87807	5000	5454	18100	15017	99801	17110	

U.S. DEPT. OF JUSTICE

Government Code & Cypher School (GC&CS) formed in 1919 based in London at Watergate House.

Alastair
Denniston -
first head of
GC&CS



ADJOINING THE TOWN AND RAILWAY STATION OF BLETCHLEY, 42 MILES FROM LONDON.

Illustrated Particulars, Plan and Conditions of Sale
of the

business in the

extending to about

Low Swelling

THE BLETCHLEY HOME FARM

with attractive Residence, extensive Buildings and Water laid on to practically every field.
FACTORY SITES FRONTING THE RAILWAY AND MAIN ROAD;
ATTRACTIVE RESIDENTIAL BUILDING SITES WITH ALL SERVICES;
30 MODERN COTTAGES;
VACANT POSSESSION OF PRACTICALLY THE WHOLE ESTATE.

KNIGHT, FRANK & RUTLEY

(b, j), *Supercus*, F.S.I., P.F.S.I.; W. Gohm, B.S.G., F.S.I.; C. M. Gassner, S. J., Dabbs, F.S.I., F.S.I.,
M. MacLennan (D.S.A.I.), R. Finkler/

In combination with Mevco.

WHATLEY, HILL & CO.

作者 田島 公雄氏、M.C., F.R.S., 男、生、1908年、F.R.S., A.S.T., 男、生、1940年。

*At Bletchley Park, Bletchley, on Wednesday, the 28th day of July, 1937, at 3.0 p.m.
(Unless previously sold privately.)*

Solicitor:

R. A. L. BROADLEY, Esq., 3, Essex Court, Temple, E.C.4. (Tel.: Central 4419).

Authors:

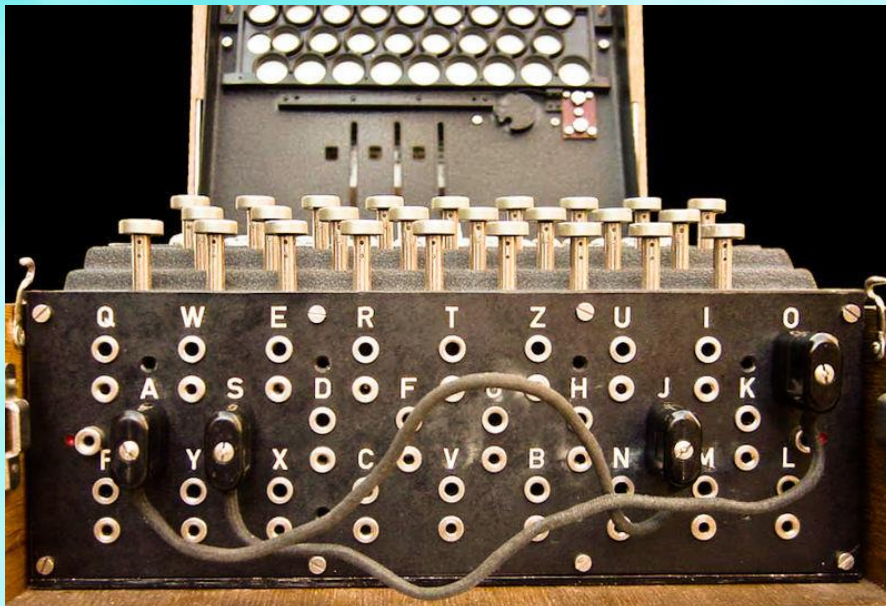
Messrs. WHATLEY, HILL & CO., 24, Ryder Street, St. James's, S.W.1. (Tel.: Whitehall 4511.)

Messrs. KNIGHT, FRANK & RUTLEY, 20, Hanover Square, W.1. (Tel.: Mayfair 3371.)

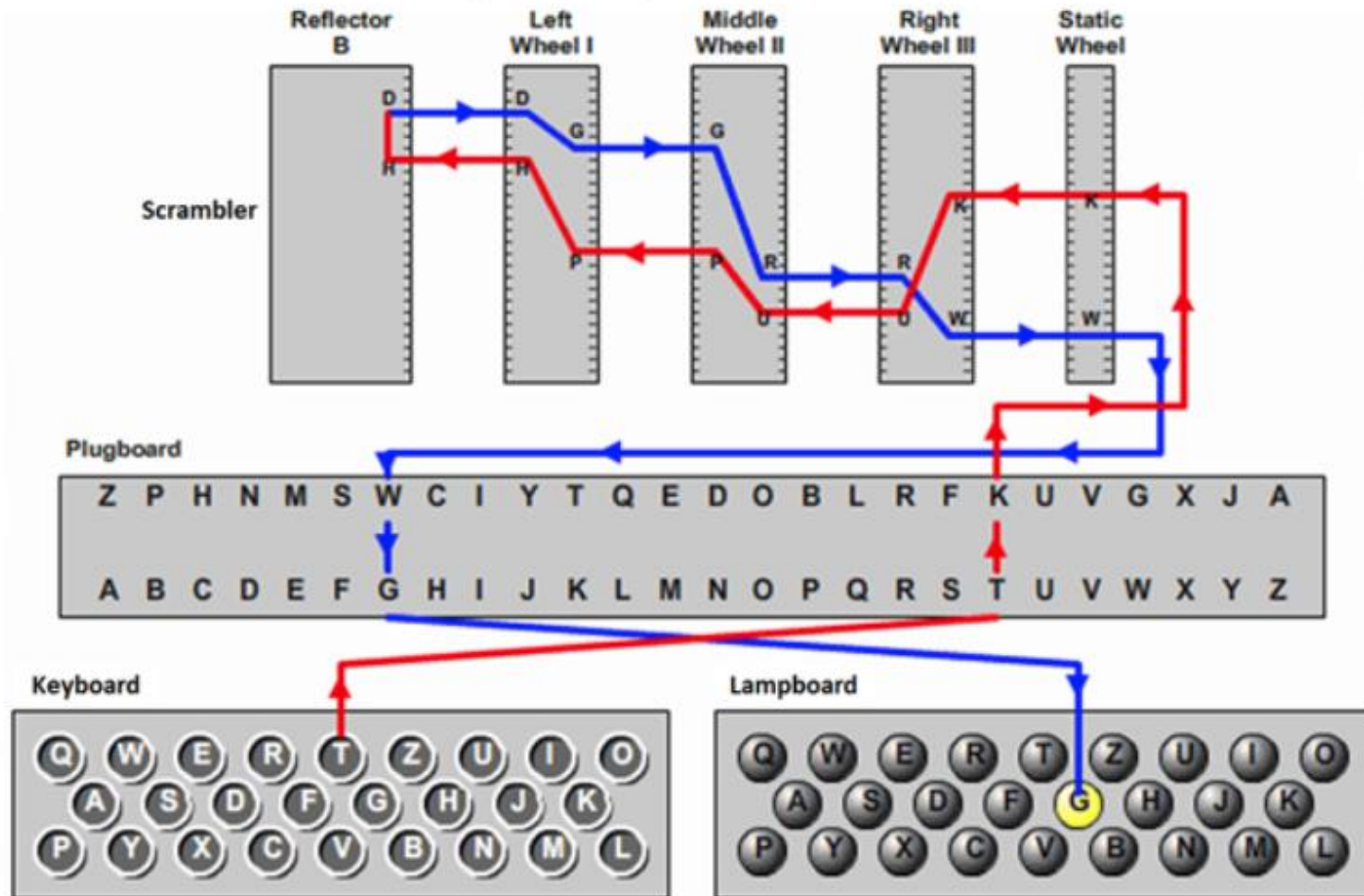
BLETCHLEY PARK



ENIGMA



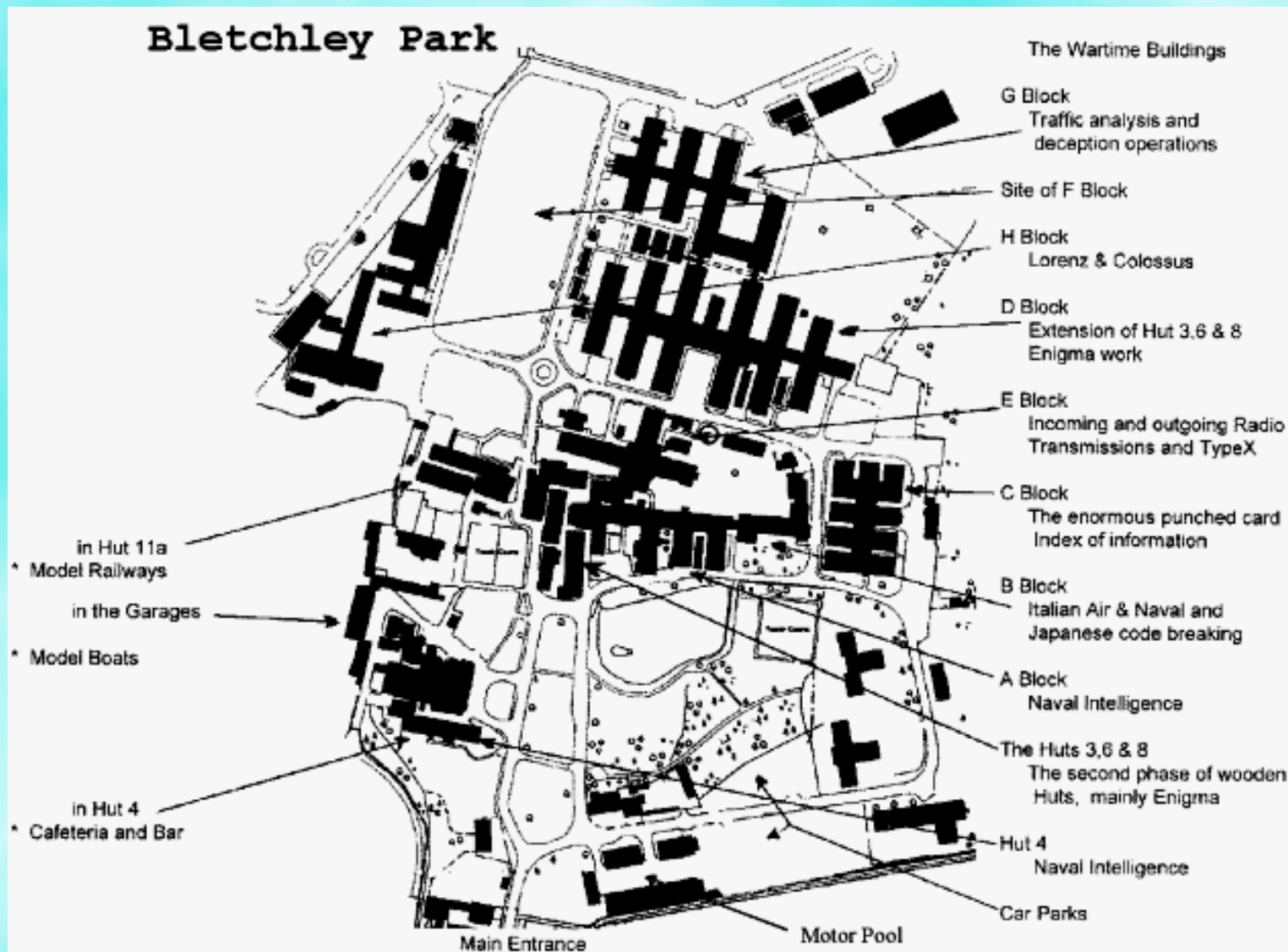
Enigma Encipherment Stages



LORENZ



BLETCHLEY PARK HUTS



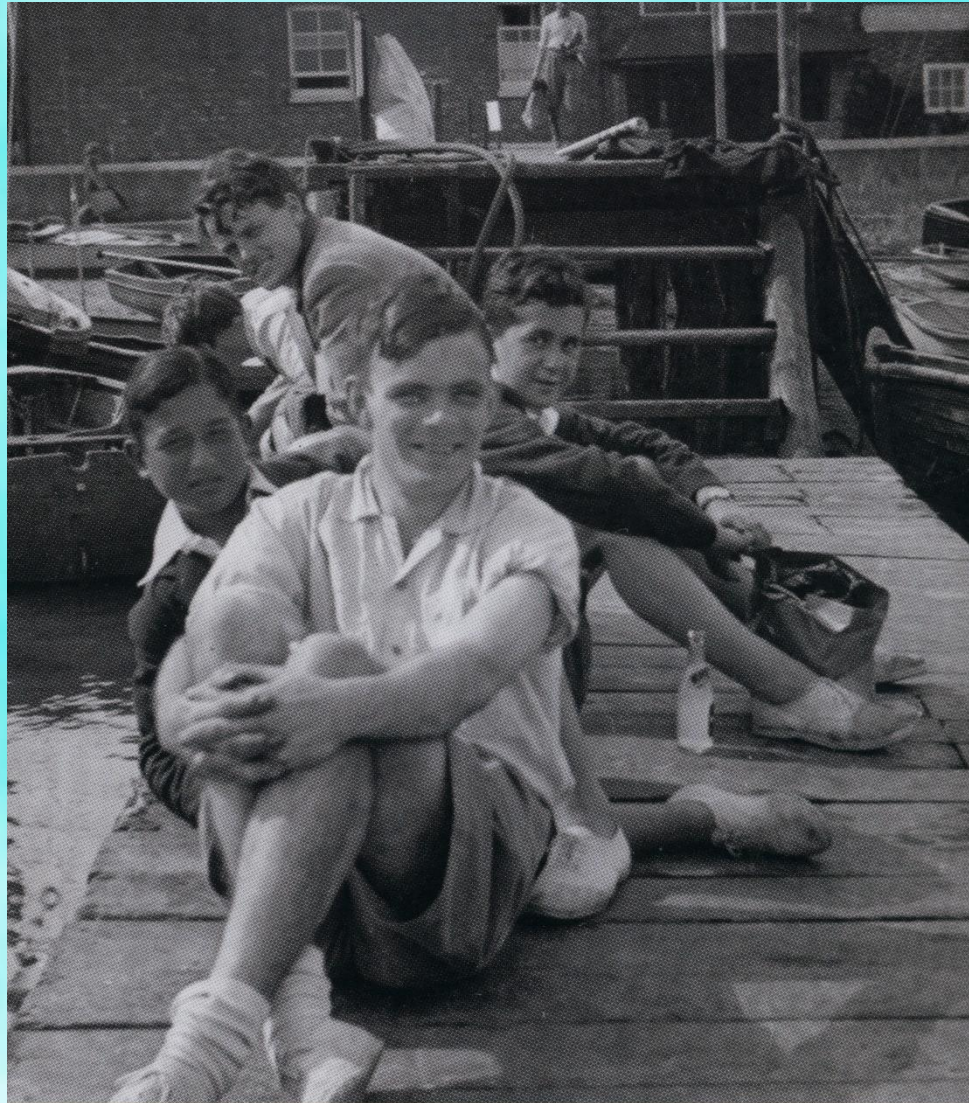


BREAKING THE ENIGMA CODE

Polish Codebreakers



ALAN TURING



THE BOMBE



BLETCHLEY PARK BLOCKS

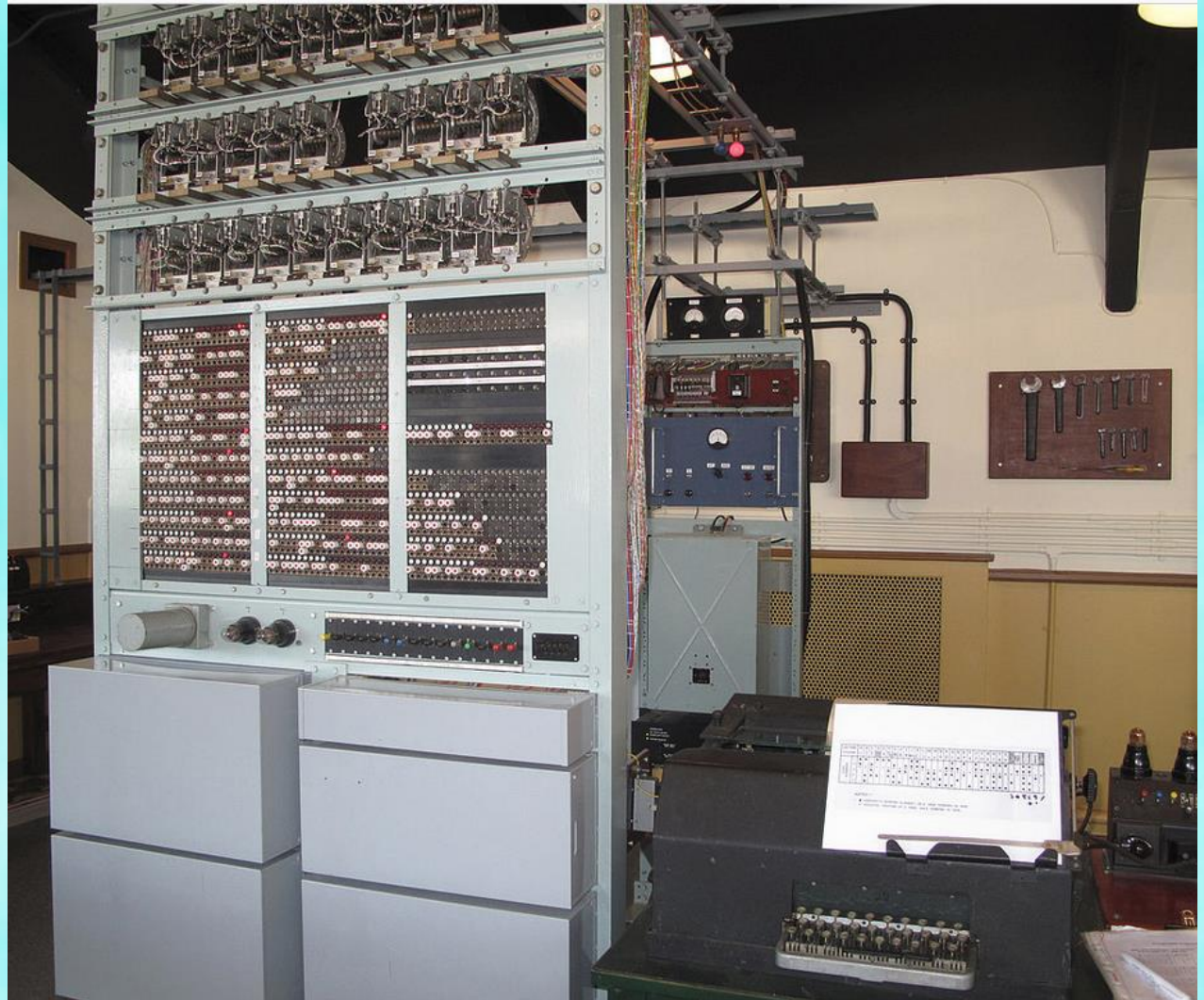


BREAKING THE LORENZ CODE

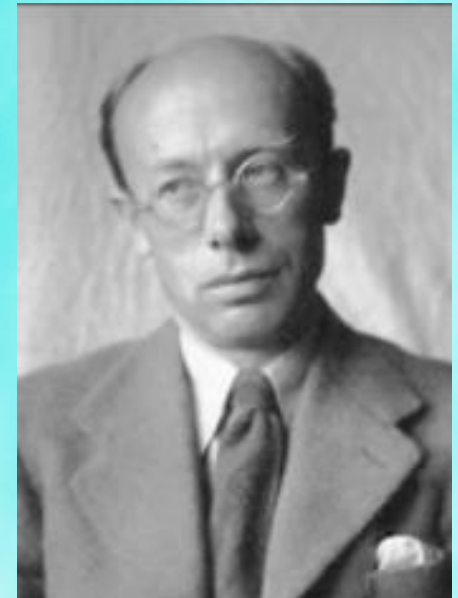
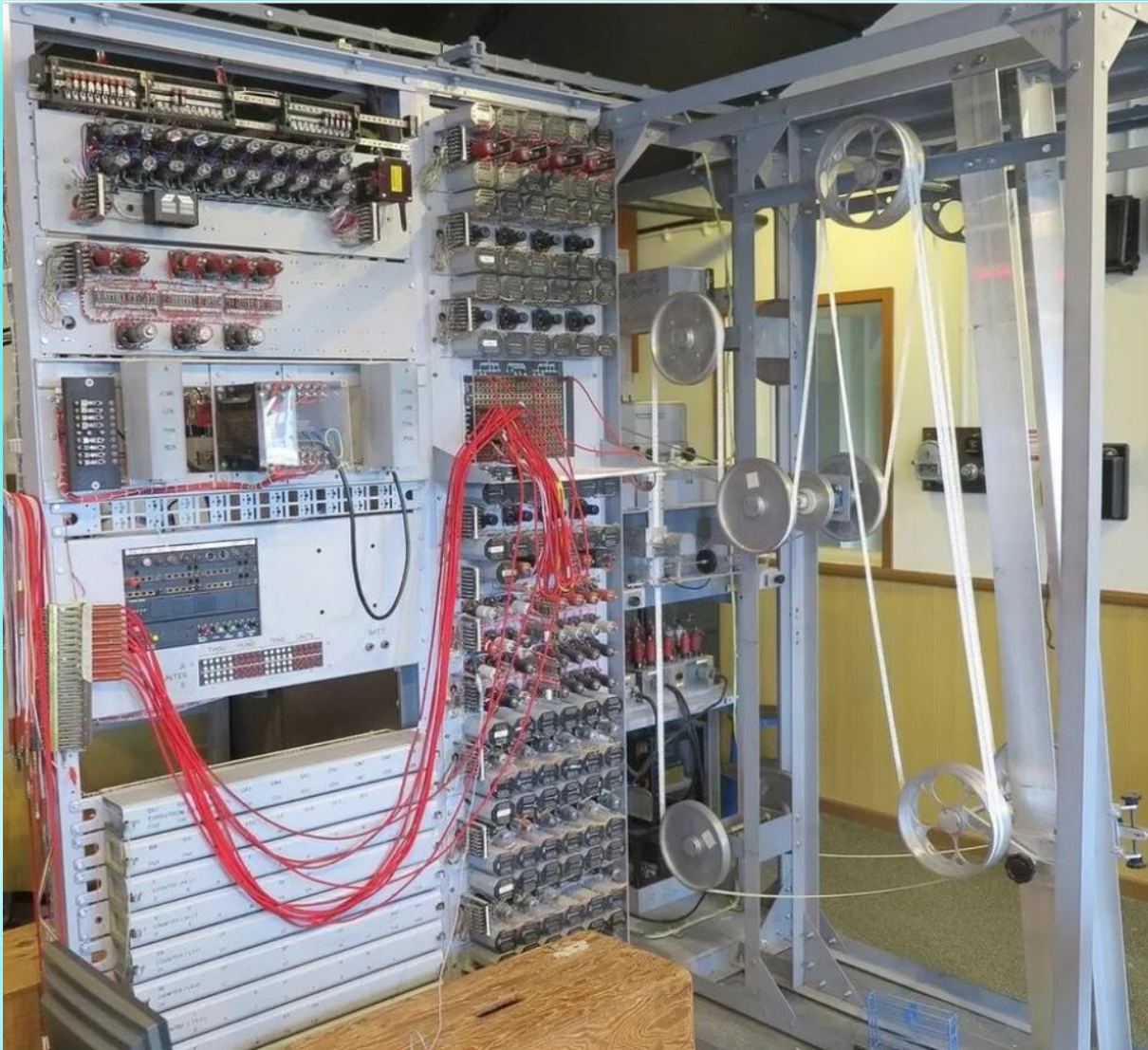
TUNNY – Block F.



Bill Tutte

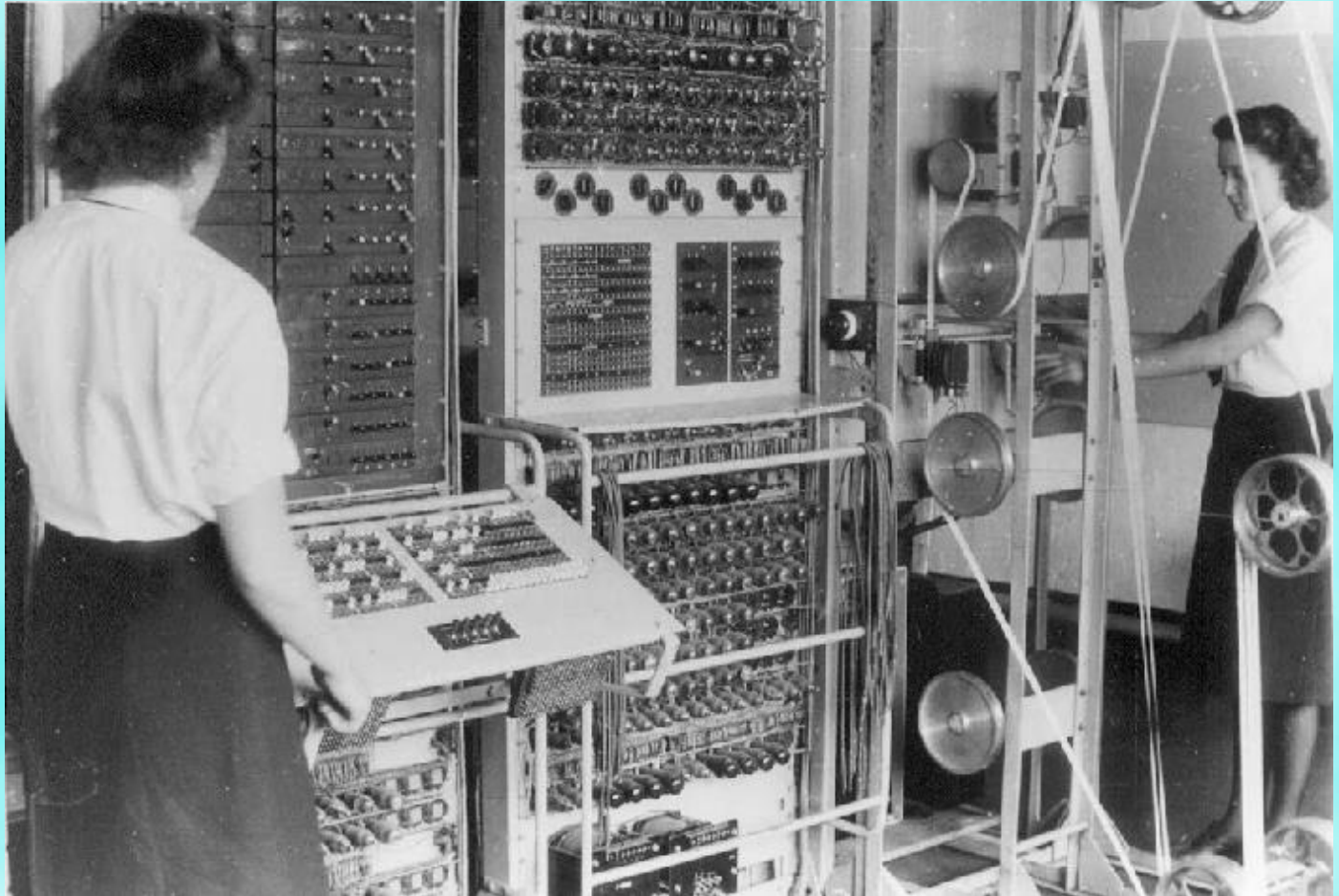


HEATH ROBINSON – Block H



Max Newman

COLOSSUS – Block H



Tommy Flowers



A.M. FORM No. 1479 **TOP ~~MOSE~~ SECRET ULTRA**
 TO BE KEPT UNDER LOCK AND KEY AND NEVER TO BE REMOVED FROM THE OFFICE
 THIS FORM IS TO BE USED FOR AIR INTELLIGENCE MESSAGES ONLY.

NR. No.	GR. No.	OFFICE SERIAL No.	
DATE	TIME OF RECEIPT	TIME OF DESPATCH	SYSTEM
TO:			
FROM:			
SENDER'S No.			

(T.O.O. VARIOUS 6/6/44). CX/MSS/T207/57
 (ZTPG/248973, 248970, 248974,
 278977, 248981, 248980).
 KV/6634.

WEST EUROPE.

COMPILED FROM DOCUMENT DATED 6/6, SEEN BY SOURCE 1-

"SDC NORMANDY ON 6TH
 10 am
 (A) ~~4000~~ HOURS. SITUATION AT ASNELLES. FURTHER
 DISEMBARKATIONS BETWEEN ABOUT 1 KILOMETRE AND
 10 KILOMETRES TO EASTWARD. TANKS AND INFANTRY (STRONG
 INDICATIONS OPERATING) AGAINST ASNELLES. ARROMANCHES
 UNDER FIRE. REINFORCED AIR RECCE. LONGUES STILL UNDER
 FIRE.
 10.30 am
 (B) ~~1030~~ HOURS RADAR STATION ARROMANCHES UNDER FIRE FROM
 SHIPS' GUNS AND (STRONG INDICATIONS SURROUNDED) BY TANKS
 AND INFANTRY.
 11 am.
 (C) ~~4400~~ HOURS CONTINUOUS ARRIVALS AND DEPARTURES FROM

DISTRIBUTION:	TIME OF ORIGIN	SIGNATURE OF ORIGINATOR, NOT TO BE TELEPRINTED	OPERATOR'S RECEIPT
DEGREE OF PRIORITY			

